SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: __Shefali Patel__ Examiner #: __79747__ Date: __3/29/04__

Art Unit: __2621__ Phone Number 30__1-4182__ Serial Number: __09/676,949__

Mail Box and Bldg/Room Location: __CPK1-4A07__ Results Format Preferred (circle): **PAPER** DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.
****

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: __Image Processing device, Method, and storage medium__

Inventors (please provide full names): __Murakami Tomochika ; Hayashi, Junichi__

Earliest Priority Filing Date: __11/18/1999__

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please Search for claim 1:

- Judging means for whether the image is gray-scale image or color image...

- Convert gray-scale image into color image

- embedding digital watermark in part of the color image data.

thanks,

3-3004

****

Set	Items	Description
S1	25299	IMAG? OR PICTURE OR PHOTO?? OR GRAPHIC? OR PHOTOGRAPH?
S2	217	GREYSCALE OR GRAYSCALE OR (GREY OR GRAY)()SCALE?
S3	216	COLOUR? OR COLOUR? OR RGB OR RED()GREEN()BLUE
S4	38	(DETECT? OR DETERMIN? OR JUDG? OR EVALUAT? OR ASSESS? OR D-ISCERN? OR ANALY? OR DISTINGUISH? OR CALCULAT?) AND S1 AND S2
S5	99	(CONVERT? OR CONVERS? OR CHANG? OR MODIF? OR ALTER? OR ADJ-UST?) AND S2
S6	183	WATERMARK? OR WATER()MARK?
S7	74	(DIGIT? OR ELECTRONIC?)(3N)(MARKER? OR MARKING? OR SYMBOL? OR STENCIL? OR PATTERN? OR FINGERPRINT? OR IDENTIFIER?)
S8	9	STEGANOGRAPH?
S9	172	(EMBED? OR MERG? OR JOIN? OR INSERT? OR ATTACH? OR INTEGRA-L? OR INTEGRAT? OR EMBOSS? OR ADHER? OR ADD OR ADDED OR ADDIN-G) AND (S5 OR S6 OR S7)
S10	0	AU=(MURAKAMI, T? OR HAYASHI, J? OR MURAKAMI T? OR HAYASHI - J?)
S11	3	S5 AND S3 AND S9
S12	9	S5 AND S3
S13	6	S12 NOT S11
S14	0	S13 AND S6
S15	22	S1 AND S2 AND S3
S16	3	S15 AND S9
S17	0	S16 NOT (S12 OR S11)

11/3,K/1

00126137   DOCUMENT TYPE: Review

PRODUCT NAMES: FreeHand 9 Macintosh (419257)

TITLE: Flash in the Pan: Macromedia Freehand 9
AUTHOR: Shalat, Andrew
SOURCE: Micro Publishing News, p22(1) Jun 2000
HOMEPAGE: http://www.micropubnews.com

RECORD TYPE: Review
REVIEW TYPE: Review
GRADE: A

REVISION DATE: 20001230

...the latest release of the illustration toolset, is rated excellent
overall, especially for its consistent **integration** with Flash and
features for concurrent Web publishing and traditional printing. New
features **integrate** Freehand 9 successfully with existing and emerging
graphics technologies. Users of FreeHand 7 and 8...
...remain. New tools include the Page tool, which eases tasks required to
resize each page, **change** orientation, duplicate, or remove pages. The
Page tool's primary function is to easily generate...

...points as the user chooses. These features are particularly useful in
accurately, quickly, and easily **changing** perspectives for use in a Flash
movie. The new Envelope tool is easier to find...

...and pixel-based objects. When an area has been selected or traced, it
can be **converted** to a path in an **RGB** , CMYK, or **gray - scale** color
space. Users can produce multipage Portable Document Format (PDF)
documents.

11/3,K/2

00123515   DOCUMENT TYPE: Review

PRODUCT NAMES: KPT effects 6 Macintosh & Windows (436453)

TITLE: KPT 6 bundles 10 creative tools
AUTHOR: Howard, Courtney E
SOURCE: Electronic Publishing Magazine,   v24 n3 p58(1) Mar 2000
ISSN: 1097-9190
HOMEPAGE: http://www.electronic-publishing.com

RECORD TYPE: Review
REVIEW TYPE: Review
GRADE: B

REVISION DATE: 20030221

...s Power Tools (KPT) 6 is MetaCreations' latest series of plug-in image
filters that **add** to the effectiveness of Adobe Photoshop and any host

applications compatible with Photoshop. KPT's...

...same user-friendly interface is used across the plug-ins, but the
floating control panel **changes** from filter to filter. Unfortunately, KPT
6 does not support CMYK, and all images have to be in **RGB** or **gray -
scale** format in order to work with KPT's filters.

11/3,K/3
DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.
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00115453   DOCUMENT TYPE: Review

PRODUCT NAMES: PhotoJazz 1.0 Windows & PowerMac   (747149)

TITLE: BitJazz saves time and space with image compression
AUTHOR: Howard, Courtney E
SOURCE: Electronic Publishing Magazine,   v23 n1 p59(1) Jan 1999
ISSN: 1097-9190
HOMEPAGE: http://www.electronic-publishing.com

RECORD TYPE: Review
REVIEW TYPE: Product Analysis
GRADE: Product Analysis, No Rating

REVISION DATE: 20021226

...1 with no loss in quality. This solves the problem of having large file
sizes **attached** to high-resolution images, which hinders the workflow
process because the larger files are difficult...

...channels. It does not support bitmap and indexed color images, and these
have to be **converted** to **gray - scale** and **RGB** mode, respectively.
PhotoJazz is compatible with Adobe's image editing and creation programs.
The PhotoJazz...
?

00134648   DOCUMENT TYPE: Review

PRODUCT NAMES: Adobe Photoshop   (213756)

TITLE: (R)Evolution II: Color: A New Zone System?
AUTHOR: Caponigro, John Paul
SOURCE: Photo>Electronic Imaging,   v44 n10 p20(5) Oct 2001
ISSN: 0146-0153
HOMEPAGE: http://www.peimag.com

RECORD TYPE: Review
REVIEW TYPE: Product Analysis
GRADE: Product Analysis, No Rating

REVISION DATE: 20020130

...according to a variety of methods. For example, artists can edit color
quality by accessing **grayscale** , **RGB** , CMYK, LAB, HSB, and other scales.
HSB, which addresses colors' hue, saturation, and brightness, is a useful
tool for controlling color quality. Unlike the **RGB** and CMYK methods, HSB
allows users to treat primary color qualities separately. In Photoshop,
designers can use the **Adjustment** Layers' Blending mode to target separate
color components, such as hue, saturation, color, and luminosity...

00114912   DOCUMENT TYPE: Review

PRODUCT NAMES: Adobe Photoshop   (213756)

TITLE: Arellanes Studio Melds Screen Printing, Digital Techniques
AUTHOR: Cowan, Les
SOURCE: Micro Publishing News, p32(1) Dec 1998
HOMEPAGE: http://www.micropubnews.com

RECORD TYPE: Review
REVIEW TYPE: Product Analysis
GRADE: Product Analysis, No Rating

REVISION DATE: 19990630

...results with fewer segments for each separation. With Photoshop,
Arellanes chooses discrete colors from an **RGB** file, creates a **gray
scale** of each color for which a touch plate will be printed, and runs a
film...

...reproduction. They were printed on clear plastic in black and white,
after each color was **converted** to Photoshop's black channel. Stencils
were made, and the final screenprint was done with...

00106390   DOCUMENT TYPE: Review

PRODUCT NAMES: Compression Engine Professional Windows 95 & Windows NT (701351)

TITLE: Doing the Wave: Compression Engine Bests JPEG
AUTHOR: Sauer, Jeff Marlowe, Robin
SOURCE: NewMedia,   v7 n15   p31(2) Nov 26, 1997
ISSN: 1060-7188
HOMEPAGE: http://www.newmedia.com

RECORD TYPE: Review
REVIEW TYPE: Review
GRADE: A

REVISION DATE: 20000830

...supported. Easy to use controls.allow users to rotate, flip horizontally
and vertically, invert color, **change** to **gray - scale** , and tweak
brightness and contrast levels on **gray - scale** images. **RGB** levels for
color images cannot be **adjusted** . Testers found it easier to finish prep
work in Photoshop and then import images into...

 13/3,K/4
DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.

00103758   DOCUMENT TYPE: Review

PRODUCT NAMES: Paint Shop Pro 4.12 Windows 95 & NT   (373656)

TITLE: The 1997 PC Magazine Shareware Awards
AUTHOR: Canter, Sheryl
SOURCE: PC Magazine,   v16 n16   p219(5) Sep 23, 1997
ISSN: 0888-8509
HOMEPAGE: http://www.pcmag.com

RECORD TYPE: Review
REVIEW TYPE: Review
GRADE: A

REVISION DATE: 20000830

...walks the user though many options, showing a thumbnail preview of how
each command will **change** the image. A unique capability usually found
only in film cameras is Paint Shop Pro's ability to create double
exposures. The photo retouch option can **change** framing, background
darkness, opacity, and transparency. The channel splitting feature makes it
possible to **change** **RGB** images into **gray - scale** images and vice
versa. Image creation features include brush-based paper textures, special
effects, and...

 13/3,K/5
DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.

00079726   DOCUMENT TYPE: Review

PRODUCT NAMES: **CD-Q/Select (Photoshop Plug-In) 2.0   (490598)**

TITLE: CD-Q 2.0
AUTHOR: Nielsen, Matthew C
SOURCE: Macworld,   v12 n7 p65(1) Jul 1995
ISSN: 0741-8647
HOMEPAGE: http://www.macworld.com

RECORD TYPE: Review
REVIEW TYPE: Review
GRADE: B

REVISION DATE: 20001130

...Photoshop Plug In) 2.0 is an Adobe Photoshop plug-in that lets users set
 conversion and correction parameters before opening a Photo CD file.
Users select one of three color models, either **gray - scale** , **RGB** , or
CMYK. Several tools are included for cropping, rotating, mirroring, and
sharpening. A densitometer is also included for sampling colors and
adjusting highlights and shadows. The **RGB** mode lets users slide controls
for red, green, and blue independently. Nine predefined monitor profiles...

...show the affected pixels. For images that are meant for four-color
printing, users instead **adjust** curves for the CMYK channels with the
Image Picker, which shows thumbnail previews of how...

DESCRIPTORS: Apple Macintosh; CD-ROMs; Color Matching; Color Separation;
    File **Conversion** ; Graphics Tools; Image Processing; MacOS; Photoshop

 13/3,K/6
DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.
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00071320   DOCUMENT TYPE: Review

PRODUCT NAMES: **Extensis Intellihance Pro   (479209)**

TITLE: Intellihance
AUTHOR: Faye, Denis
SOURCE: Publish,   v9 n11 p36(2) Nov 1994
ISSN: 0897-6007
HOMEPAGE: http://www.publish.com

RECORD TYPE: Review
REVIEW TYPE: Review
GRADE: B

REVISION DATE: 20020422

...a Photoshop plug-in that can help automate the process of enhancing a
photograph by **adjusting** contrast, saturation, brightness, and other
parameters. However, most professionals can already do these tasks from...

...is most helpful for batch-processing images. There are six plug-ins, two
each for **gray - scale** , **RGB** , and CMYK images. After calling up
Intellihance, a dialog box appears to allow users to...

...Intellihance Pro CMYK lets users calibrate an image to the final printing source, and PRO **RGB** offers scanner calibration.
?

Set	Items	Description
S1	4317095	IMAG? OR PICTURE OR PHOTO?? OR GRAPHIC? OR PHOTOGRAPH?
S2	23255	GREYSCALE OR GRAYSCALE OR (GREY OR GRAY)()SCALE?
S3	269316	COLOUR? OR COLOUR? OR RGB OR RED()GREEN()BLUE
S4	10408	(DETECT? OR DETERMIN? OR JUDG? OR EVALUAT? OR ASSESS? OR D-ISCERN? OR ANALY? OR DISTINGUISH? OR CALCULAT?) AND S1 AND S2
S5	5155	(CONVERT? OR CONVERS? OR CHANG? OR MODIF? OR ALTER? OR ADJ-UST?) AND S2
S6	13553	WATERMARK? OR WATER()MARK?
S7	19863	(DIGIT? OR ELECTRONIC?)(3N)(MARKER? OR MARKING? OR SYMBOL? OR STENCIL? OR PATTERN? OR FINGERPRINT? OR IDENTIFIER?)
S8	1152	STEGANOGRAPH?
S9	9155	(EMBED? OR MERG? OR JOIN? OR INSERT? OR ATTACH? OR INTEGRA-L? OR INTEGRAT? OR EMBOSS? OR ADHER? OR ADD OR ADDED OR ADDIN-G) AND (S5 OR S6 OR S7)
S10	19265	AU=(MURAKAMI, T? OR HAYASHI, J? OR MURAKAMI T? OR HAYASHI -J?)
S11	471	S5 AND S3
S12	67	S11 AND S9
S13	22	S12 AND PY=2000:2004
S14	45	S12 NOT S13
S15	42	RD S14 (unique items)
S16	4	(CONVERT? OR CONVERS? OR CHANG? OR MODIF? OR ALTER? OR ADJ-UST?)(3N)S2(5N)INTO(3N)S3
S17	4	S16 NOT S15
S18	2	RD S17 (unique items)

```
S19        1    S10 AND S5
S20        1    S19 NOT (S14 OR S18)
S21       51    S5(S)S3(S)S9
S22       44    S21 AND S1
S23       15    S22 NOT (S15 OR S19 OR S14)
S24       15    S23 AND PY=2000:2004
S25        8    RD S24 (unique items)
```

15/3,K/1   (Item 1 from file: 2)
DIALOG(R)File   2:INSPEC

6336694   INSPEC Abstract Number: B1999-10-6135-085, C1999-10-5260B-111
  Title: Histogram specification of 24-bit color images in the color difference (C-Y) color space
  Author(s): Weeks, A.R.; Sartor, L.J.; Myler, H.R.
  Author Affiliation: Dept. of Electr. & Comput. Eng., Central Florida Univ., Orlando, FL, USA
  Journal: Journal of Electronic Imaging   vol.8, no.3   p.290-300
  Publisher: SPIE-Int. Soc. Opt. Eng,
  Publication Date: July 1999 Country of Publication: USA
  CODEN: JEIME5 ISSN: 1017-9909
  SICI: 1017-9909(199907)8:3L.290:HSCI;1-Y
  Material Identity Number: P618-1999-003
  U.S. Copyright Clearance Center Code: 1017-9909/99/$10.00
  Language: English
  Subfile: B C
  Copyright 1999, IEE

  Abstract: Histogram equalization and specification have been widely used to enhance information in a **gray scale** image, with histogram specification having the advantage of allowing the output histogram to be specified...
  ... histogram techniques to color images is not very straightforward. Since humans are sensitive to chromatic **changes** , care must be taken to ensure that incorrect colors are not produced. Additionally, expanding the one-dimensional histogram used in gray level histogram techniques to a **joint** histogram (usually of three variables representing the primary colors of red, green, and blue) can...
  Descriptors: image **colour** analysis...

 15/3,K/2   (Item 2 from file: 2)
DIALOG(R)File   2:INSPEC

6292294   INSPEC Abstract Number: B1999-08-6135C-064, C1999-08-5260B-180
 Title: Color image encryption using double random phase encoding
  Author(s): Shuqun Zhang; Karim, M.A.
  Author Affiliation: Dept. of Electr. Eng., Tennessee Univ., Knoxville, TN, USA
  Journal: Microwave and Optical Technology Letters   vol.21, no.5   p. 318-23
  Publisher: Wiley,
  Publication Date: 5 June 1999 Country of Publication: USA
  CODEN: MOTLEO ISSN: 0895-2477
  SICI: 0895-2477(19990605)21:5L.318:CIEU;1-4
  Material Identity Number: M687-1999-010
  Language: English
  Subfile: B C
  Copyright 1999, IEE

  ...Abstract: new encryption technique is proposed to encrypt color images using existing optical encryption systems for **gray - scale** images. The color images are **converted** to their indexed image formats before they are encoded. At the decryption end, the color images are recovered by **converting** the decrypted indexed images back to their **RGB** formats. The proposed single-channel color image encryption method is more compact and

robust than the multichannels methods. Since color information is **added** to the shape information, better verification performance can be achieved in optical security systems.

...Identifiers: **gray - scale** images...

... **RGB** formats

15/3,K/3   (Item 3 from file: 2)
DIALOG(R)File   2:INSPEC
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5977815   INSPEC Abstract Number: B9809-6140C-116, C9809-1250-062
 Title: **Invisible** watermarking **for image verification**
  Author(s): Yeung, M.M.; Mintzer, F.C.
  Author Affiliation: IBM Thomas J. Watson Res. Center, Yorktown Heights, NY, USA
  Journal: Journal of Electronic Imaging   vol.7, no.3   p.578-91
  Publisher: SPIE-Int. Soc. Opt. Eng,
  Publication Date: July 1998 Country of Publication: USA
  CODEN: JEIME5 ISSN: 1017-9909
  SICI: 1017-9909(199807)7:3L.578:IWIV;1-4
  Material Identity Number: P618-98003
  U.S. Copyright Clearance Center Code: 1017-9909/98/$10.00
  Language: English
  Subfile: B C
  Copyright 1998, IEE

 Title: **Invisible** watermarking **for image verification**
  Abstract: In this paper we propose a new method for invisibly **watermarking** high-quality color and **gray - scale** images. This method is intended for use in image verification applications to determine whether the content of an image has been **altered** , due perhaps, to the act of a malicious party. It consists of both a **watermarking** process which stamps a **watermark** into a source image without visual degradation, and a **watermark** extraction process which extracts a **watermark** from a stamped image. The extracted **watermark** can be compared with the **embedded** **watermark** to determine whether the image has been **altered** . The processing used in the **watermarking** and **watermark** extraction processes will be presented in this paper. In addition, we shall describe some **modifications** that provide better security, and an adaptation of the scheme to **watermark** JPEG images. Experimental results are reported. Some advantages of this technique over other invisible **watermarking** techniques for verification will be discussed; these include a high degree of invisibility, color preservation, ease of extraction, and a high degree of protection against the retention of a correct watermark after **alteration** by a malicious party.
    ...Descriptors: image **colour** analysis...
    Identifiers: invisible **watermarking** ; ...

... **gray - scale** images...

... **watermark** extraction...

...extracted **watermark** ; ...

... **embedded** **watermark** ;

15/3,K/4   (Item 4 from file: 2)

5899964   INSPEC Abstract Number: B9806-6140C-144, C9806-1250-065
  Title: **An invisible** watermarking **technique for image verification**
  Author(s): Yeung, M.M.; Mintzer, F.
  Author Affiliation: IBM Thomas J. Watson Res. Center, Yorktown Heights, NY, USA
  Conference   Title: Proceedings.   International   Conference   on   Image Processing (Cat. No.97CB36144)   Part vol.2   p.680-3 vol.2
  Publisher: IEEE Comput. Soc, Los Alamitos, CA, USA
  Publication   Date: 1997 Country   of   Publication: USA   3   vol. (1ii+951+892+748) pp.
  ISBN: 0 8186 8183 7 · Material Identity Number: XX97-02848
  U.S. Copyright Clearance Center Code: 0 8186 8183 7/97/$10.00
  Conference   Title: Proceedings   of   International   Conference   on   Image Processing
  Conference Sponsor: IEEE Signal Process. Soc
  Conference   Date: 26-29 Oct. 1997   Conference Location: Santa Barbara, CA, USA
  Language: English
  Subfile: B C
  Copyright 1998, IEE
 Title: **An invisible** watermarking **technique for image verification**
  Abstract: We   propose   a   new   method   for   invisibly   **watermarking** high-quality color and **gray - scale** images. This method is intended for use in image verification applications, where one is interested in knowing whether the content of an image has been **altered** since some earlier time, perhaps because of the act of a malicious party. It consists of both a **watermark** stamping process which **embeds** a **watermark** in a source image, and a **watermark** extraction process which extracts a **watermark** from a stamped image. The extracted **watermark** can be used to determine whether the image has been **altered** . The processing used in the stamping and extraction processes is presented. We also discuss some advantages of this technique over other invisible **watermarking** techniques for the verification application; these include a high degree of invisibility, color preservation, ease of decoding, and a high degree of protection against retention of the **watermark** after unauthorized **alterations** .
    ...Descriptors: image **colour** analysis...
    Identifiers: invisible **watermarking** ; ...

... **gray - scale** images...

... **watermark** stamping...

... **watermark** extraction...

...unauthorized **alterations** ; ...

... **watermark** retention protection

 15/3,K/5   (Item 5 from file: 2)

5759191   INSPEC Abstract Number: A9801-9385-012, B9801-7710-003
  Title: **A multispectral imaging spectrometer with programmable wavebands**
  Author(s): Wei-Song Lin; Chi-Pei Hwang; Yi-Ren Su
  Author Affiliation: Inst. of Electr. Eng., Nat. Taiwan Univ., Taipei,

Taiwan
   Journal: Proceedings of the National Science Council, Republic of China,
Part A (Physical Science and Engineering)   vol.21, no.5   p.416-27
   Publisher: Natl. Sci. Council, Taiwan,
   Publication Date: Sept. 1997 Country of Publication: Taiwan
   CODEN: PNAEE2 ISSN: 0255-6588
   SICI: 0255-6588(199709)21:5L.416:MISW;1-O
   Material Identity Number: P858-97005
   U.S. Copyright Clearance Center Code: 0255-6588/97/$5.00
   Language: English
   Subfile: A B
   Copyright 1997, IEE

   ...Abstract: CCD (Charge Coupled Device) detector with 256*1024 pixels, a
16-bit analog to digital **converter** , and a pushbroom scanning mechanism
enable the system to detect the radiance of an object...
... CCD camera, a light source, an X-stage and a processing unit, which are
successfully **integrated** to perform spectral imaging functions. During
operation, the system is supervised by operating software, which...

... saved on a hard disk for further study. For immediate display of the
spectral images, **gray** - **scale** , 16-color and artificial **RGB** -color
schemes are provided to enhance the presentation. For the sake of testing
and demonstration...
   ...Identifiers: analog to digital **converter** ; ...

... **gray** - **scale** schemes...

...artificial **RGB** -color schemes

  15/3,K/6   (Item 6 from file: 2)
DIALOG(R)File   2:INSPEC
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5467090   INSPEC Abstract Number: B9702-7230G-050
  **Title: Progress on color night vision: visible/IR fusion, perception &
search, and low-light CCD imaging**
   Author(s): Waxman, A.M.; Gove, A.N.; Seibert, M.C.; Fay, D.A.; Carrick,
J.E.; Racamato, J.P.; Savoye, E.D.; Burke, B.E.; Reich, R.K.; McGonagle,
W.H.; Craig, D.M.
   Author Affiliation: Lincoln Lab., MIT, Lexington, MA, USA
   Journal: Proceedings of the SPIE - The International Society for Optical
Engineering Conference Title: Proc. SPIE - Int. Soc. Opt. Eng. (USA)
vol.2736   p.96-107
   Publisher: SPIE-Int. Soc. Opt. Eng,
   Publication Date: 1996 Country of Publication: USA
   CODEN: PSISDG ISSN: 0277-786X
   SICI: 0277-786X(1996)2736L.96:PCNV;1-7
   Material Identity Number: C574-96164
   U.S. Copyright Clearance Center Code: 0 8194 2117 0/96/$6.00
   Conference Title: Enhanced and Synthetic Vision 1996
   Conference Sponsor: SPIE
   Conference Date: 8-10 April 1996   Conference Location: Orlando, FL, USA
   Language: English
   Subfile: B
   Copyright 1997, IEE

   ...Abstract: results of human perceptual testing are described for a
visual search task, the detection of **embedded** small low-contrast targets

in natural night scenes. The advantages of color fusion over two **alternative grayscale** fusion products is demonstrated in the form of consistent, rapid detection across a variety of...
...Descriptors: **colour** vision
...Identifiers: **grayscale** fusion products

 15/3,K/7   (Item 7 from file: 2)
DIALOG(R)File   2:INSPEC
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5320357 INSPEC Abstract Number: A9616-8170C-007, B9608-0590-020
 Title: **Industrial ultrasonic imaging and microscopy**
  Author(s): Gilmore, R.S.
  Author Affiliation: Gen. Electr. Co., Schenectady, NY, USA
  Journal: Journal of Physics D (Applied Physics)   vol.29, no.6   p. 1389-417
  Publisher: IOP Publishing,
  Publication Date: 14 June 1996 Country of Publication: UK
  CODEN: JPAPBE ISSN: 0022-3727
  SICI: 0022-3727(19960614)29:6L.1389:IUIM;1-1
  Material Identity Number: J132-96007
  U.S. Copyright Clearance Center Code: 0022-3727/96/061389+29$19.50
  Language: English
  Subfile: A B
  Copyright 1996, IEE

  ...Abstract: developed for operation at progressively higher frequencies, now ranging from 1.0 to 100 MHz. **Conversely** , scanning acoustic microscopes made a relatively sudden appearance 20 years ago on the campus of...
... material, Z/d is established by the materials ultrasonic velocities. Pixels are the squares of **colour** or **greyscale** that make up computer displays of scanned images. Following Nyquist's criterion, the resolution of...

... in resolution can be achieved with image processing. Finally, applications studies in metals, ceramics, composites, **attachment** methods, coatings, and electronic assemblies will be used to demonstrate specific roles for imaging/microscopy...
  ...Identifiers: **attachment** methods

 15/3,K/8   (Item 8 from file: 2)
DIALOG(R)File   2:INSPEC
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4712671 INSPEC Abstract Number: B9409-7260-011, C9409-7410H-002
  Title: **High-performance, cost-effective computer and video interfacing to megapixel FPDs**
  Author(s): Wedding, C.A.; Stoller, R.A.
  Author Affiliation: Photonics Systems Inc., Northwood, OH, USA
  Journal: Proceedings of the SPIE - The International Society for Optical Engineering   vol.2174   p.74-8
  Publication Date: 1994 Country of Publication: USA
  CODEN: PSISDG ISSN: 0277-786X
  U.S. Copyright Clearance Center Code: 0 8194 1469 7/94/$6.00
  Conference Title: Advanced Flat Panel Display Technologies
  Conference Sponsor: SPIE; Soc. Imaging Sci. & Technol
  Conference Date: 7-8 Feb. 1994   Conference Location: San Jose, CA, USA

Language: English
Subfile: B C

...Abstract: FPDs which use data directly from the computing system and circumvent the analog and rescan **conversions** that occur for CRTs. Photonics has developed and produces high resolution AC plasma FPDs that...

... to 75 frames per second, 1280*1024 full color pixel resolution and 8 bits of **gray** **scale** per color channel. This paper explores cost effective and high performance capabilities of the FPD-VDI and how it **integrates** with high definition computer and communications systems.
Identifiers: **colour** displays...

15/3,K/9   (Item 9 from file: 2)
DIALOG(R)File   2:INSPEC
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04227506
 Title: Optical imaging and (OCR) recognition technology (recognology)
  Author(s): Schantz, H.F.
  Author Affiliation: HLS Associates, Sterling, VA, USA
  Journal: Remittance and Document Processing Today   vol.14, no.7   p. 11, 13-15
  Publication Date: May-June 1992 Country of Publication: USA
  CODEN: RDPTE6 ISSN: 0883-5594
  Language: English
  Subfile: D

  Abstract: Today, optical image scanners and OCR readers are capable of **converting** printed and microfilmed image and text information into digital electronic data for input, processing, and...

... to 400 dots or pixels per inch square. The author looks at optical techniques like **gray** **scale** , dithering, **colour** , throughput, scaling, image enhancement and image interfacing, artificial intelligence and neural networks. Applications like desktop publishing, database recognition and **conversion**   , and fax are discussed. The use of **integrated** microprocessors is also examined.
  ...Identifiers: **gray** **scale** ; ...

... **colour** ; ...

... **integrated** microprocessors

15/3,K/10   (Item 10 from file: 2)
DIALOG(R)File   2:INSPEC
(c) 2004 Institution of Electrical Engineers. All rts. reserv.

03173633   INSPEC Abstract Number: A88089726, B88047696
  Title: Mesopic luminous efficiency functions measured with a Lagorio's color chart
  Author(s): Yaguchi, H.; Yuki, H.; Miyake, Y.; Kubo, S.
  Author Affiliation: Fac. of Eng., Chiba Univ., Japan
  Journal: Journal of the Illuminating Engineering Institute of Japan vol.72, no.2   p.97-101
  Publication Date: Feb. 1988 Country of Publication: Japan
  CODEN: SHGSAR ISSN: 0019-2341
  Language: Japanese

Abstract: **Change** of spectral sensitivities for mesopic vision was investigated under both the fluorescent illuminant and the natural twilight using a Lagorio's color chart made up of 24 different color strips **inserted** between 29 step **gray** **scales** . On each color strip of the Lagorio's color chart, there is a minimally distinct border (MDB) between the color strip and the adjacent **gray** **scale** . The MDBs appeared in 24 color strips to make up an envelope curve, called the...

... of illuminance. The dependence of the luminous efficiencies for the other color on the illuminance **change** is different from observer to observer. Finally, an algorithm to estimate the spectral luminous efficiency...
   ...Descriptors: **colour** vision
   Identifiers: Lagorio **colour** chart...

... **gray** **scales** ;

 15/3,K/11 **(Item 11 from file: 2)**
DIALOG(R)File 2:INSPEC

02224754 INSPEC Abstract Number: A84037231, B84021875
 Title: Peak your picture with home-brew SSTV test gear
   Author(s): Cikas, B.
   Journal: 73 Amateur Radio's Technical Journal no.281 p.60-1
   Publication Date: Feb. 1984 Country of Publication: USA
   CODEN: ARTJD8 ISSN: 0745-080X
   Language: English
   Subfile: A B

Abstract: Describes the design of a **gray** – **scale** generator and a **colour** bar generator using CMOS ICs. The **gray** – **scale** generator is used as a standard to **adjust** brightness and contrast levels on commercial slow-scan monitors, and to peak sync and bandpass filters on home-brew equipment. The **colour** -bar generator is useful when selecting red, green, and blue filters for **colour** slow-scan photography.
   Descriptors: **colour** photography...

...field effect **integrated** circuits...
   ...Identifiers: **colour** photography...

... **gray** – **scale** generator...

... **colour** bar generator

 15/3,K/12 **(Item 12 from file: 2)**
DIALOG(R)File 2:INSPEC

01865550 INSPEC Abstract Number: B82030371
 Title: Infra-red image converter **for testing of** integrated **circuits**
   Journal: Elektro-Anzeiger vol.34, no.24 p.24-5
   Publication Date: Dec. 1981 Country of Publication: West Germany
   CODEN: EKANAJ ISSN: 0013-5518
   Language: German
   Subfile: B

Title: **Infra-red image** converter **for testing of** integrated **circuits**
   Abstract: Describes an infra-red image **converter** using a mercury
cadmium telluride crystal detector with mechanical scanning and TV display
which can drive standard TV monitors, and resolves temperature **changes** of
0.2 deg C. Thermal pictures of an **integrated** circuit chip are presented.
Either **grey scale** or **colour** facilities are offered by Infratek
Company.
   Descriptors: image **convertors** ; ...

... **integrated** circuit testing
   Identifiers: **integrated** circuit testing...

...infrared image **convertor** ; ...
... **integrated** circuit chip... ·

... **grey scale** ; ...

... **colour** facilities

   15/3,K/13   (Item 13 from file: 2)
DIALOG(R)File   2:INSPEC
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01195365   INSPEC Abstract Number: B78025547
   Title: **Preserving color television programs on black-and-white film by
electronic video recording**
   Author(s): Maekawa, A.; Iino, H.; Shigesawa, T.; Tsutada, T.
   Author Affiliation: Nippon EVR Ltd., Mihara Plant, c/o Teijin Mihara
Plant, Mihara-shi, Hiroshima-ken, Japan
   Journal: SMPTE Journal   vol.87, no.1   p.9-15
   Publication Date: Jan. 1978 Country of Publication: USA
   CODEN: SMPJDF ISSN: 0036-1682
   Language: English
   Subfile: B

   ...Abstract: color television programs, properties of the recorded films
were measured with a fine beam microdensitometer. **Modifications** of the
system, so as to use positive master and print film with an appropriate
form of **grey scale** , line-scanning recording, an **added** anti-jitter
code and players with line-scanning devices, were proposed and tested. It
has been found that a **modified** system consisting of the recorded films
with the **modifications** described and players with line sensors or a
line-scanning flying-spot scanner would be...
   ...Identifiers: **grey scale** ; ...

... **colour** TV picture...

...encoded **colour** video signal

   15/3,K/14   (Item 14 from file: 2)
DIALOG(R)File   2:INSPEC
(c) 2004 Institution of Electrical Engineers. All rts. reserv.

00240834   INSPEC Abstract Number: C71008142
   Title: **Graphics (Semiannual Technical Summary Report, 1 Jun 30-Nov 1969)**
   Author(s): Forgie, J.W.
   Issued by: MIT, Lexington, MA, USA

Publication Date: 7 Jan. 1970   Country of Publication: USA   31 pp.
Report Number: ESD-TR-69-384   Contract Number: AF19(628)-5167
U.S. Govt. Clearinghouse Number: AD-700316
Language: English
Subfile: C

   ...Abstract: input routines have been written for the Basic Combined
Programming Language (BCPL), offering a useful **alternative** to assembly
language for writing graphical subsystems on TX-2. Design work is under way
...

... regional planning has incidentally shown that the storage scope can
provide quite adequate eight-level **gray - scale** area maps. Conclusions
drawn from two years experience with programs that aid in the design...

...masks have led to the design of a radically different, high performance,
new system for **integrated** circuit layout and mask making. Progress has
been made in the development and validation of...
   ...Identifiers: **colour** display

 15/3,K/15   (Item 15 from file: 2)
DIALOG(R)File   2:INSPEC
(c) 2004 Institution of Electrical Engineers. All rts. reserv.

00120537   INSPEC Abstract Number: B70015038
   Title: **A semiconductor video output amplifier for a red blue green large
screen** colour **television receiver**
   Author(s): Poppy, D.J.
   Journal: IEEE Transactions on Broadcast and Television Receivers
vol.BTR-15, no.2   p.167-70
   Publication Date: July 1969 Country of Publication: USA
   CODEN: IEETAP ISSN: 0018-9308
   Conference Title: Proceedings of the IEEE 1969 spring conference on
broadcast and television receivers, part I
   Conference Sponsor: IEEE
   Conference Date: 9-10 June 1969   Conference Location: Chicago, IL, USA
   Language: English
   Subfile: B

   Title: **A semiconductor video output amplifier for a red blue green large
screen** colour **television receiver**
   ...Abstract: direct current coupled red blue green cathode ray tube drive
circuit for use with an **integrated** circuit **colour** demodulator is
described. This circuit meets the requirements of temperature stability,
gain bandwidth and ease of cathode ray tube **gray scale** tracking
 adjustment necessary in a high quality large production **colour**
television receiver. Special attention is given to the uniformity of
frequency response of the three outputs, as well as to the manner in which
 gray scale tracking is accomplished.

 15/3,K/16   (Item 1 from file: 6)
DIALOG(R)File   6:NTIS
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2234719 NTIS Accession Number: MIC-102-02915/XAB
   PRODAT enhancement and repair
   (DREA contractor report no. DREA CR 1999-048)
   Maxwell, C.

Defence Research Establishment Atlantic, Dartmouth, (Nova Scotia).
Corp. Source Codes: 999999999; 0621210
c1999   27p
Languages: English
Journal Announcement: USGRDR0217
  Order   this   product   from   NTIS   by: phone   at   1-800-553-NTIS   (U.S.
customers);   (703)605-6000   (other   countries);   fax   at   (703)605-6900;   and
email   at   orders@ntis.gov.   NTIS   is   located   at   5285   Port   Royal   Road,
Springfield, VA, 22161, USA.
  NTIS Prices: PC E07/MF E01

  ... Atlantic   ocean   acoustics   signal processing program PRODAT. In this
work,   a   harmonic   mean   normalizer,   a   **greyscale**   expansion routine, and a
facility for generating multiple DAT files from ping processing were   **added**
.   Problems   with   short   fast   Fourier   transforms   and   **colour** -direction
sonogram   printing   were   corrected.   Loss   of   performance   on   the MAXION
platform with newer versions...
  ... also   investigated.   For   technical   users,   information is included on
source codes,   the   system   in   which   **changes**   to   PRODAT   are   stored,
procedures   for   compiling   &   running   PRODAT, the nature of   **modifications**
 performed, and some issues that appeared during the course of development.

  15/3,K/17   (Item 1 from file: 8)
DIALOG(R)File   8:Ei Compendex(R)
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06501233   E.I. No: EIP03357607663
  Title: The use of color in multidimensional graphical information display
  Author: Montag, Ethan D.
  Corporate   Source: Munsell   Color   Science   Laboratory Chester F. Carlson
Ctr.   Imaging Sci. Rochester Institute of Technology, Rochester, NY, United
 States
  Conference   Title: Final   Program and Proceedings of the 7th IS and T/SID
Color Imaging   Conference: Color Science, Systems and Applications
  Conference   Location: Scottsdale,   AZ,   United   States   Conference   Date:
19991116-19991119
  E.I. Conference No.: 61329
  Source: Proceedings   of   the   Color   Imaging   Conference: Color Science,
Systems,   and Applications 1999. p 222-226
  Publication Year: 1999
  Language: English

  ...Abstract: scales was tested in eleven subjects. Digital   elevation
maps (DEMs) were encoded using: 1) an **RGB**   **gray**   **scale**   (RGB), 2) a
gray   **scale** based on CIELAB L* (L*), 3) a L* scale with   an   **added**   red
hue component (Red L*), 4) an L* scale with continuous   hue   **change**
(Spectral L*), and 5) a **gray**   **scale** based on luminance   (Luminance).
Performance was tested using an Evaluation task and a   Production task...

  15/3,K/18   (Item 2 from file: 8)
DIALOG(R)File   8:Ei Compendex(R)
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05318230   E.I. No: EIP99074724787
  Title: Color image encryption using double random phase encoding
  Author: Zhang, Shuqun; Karim, Mohammad A.
  Corporate Source: Univ of Tennessee, Knoxville, TN, USA
  Source: Microwave and Optical Technology Letters v 21 n 5 1999. p 318-323

/

...Abstract: new encryption technique is proposed to encrypt color images using existing optical encryption systems for **gray** - scale images. The color images are **converted** to their indexed image formats before the are encoded. At the decryption end, the color images are recovered by **converting** the decrypted indexed images back to their **RGB** formats. The proposed single-channel color image encryption method is more compact and robust than the multichannels methods. Since color information is **added** to the shape information, better verification performance can be achieved in optical security systems. (Author...
    Identifiers: Optical encryption systems; **Gray** **scale** images; Optical security systems; Optical imagery

 15/3,K/19   (Item 3 from file: 8)
DIALOG(R)File   8:Ei Compendex(R)

04854823   E.I. No: EIP97103898571
  Title: **Multispectral imaging spectrometer with programmable wavebands**
  Author: Lin, Wei-Song; Hwang, Chi-Pei; Su, Yi-Ren
  Corporate Source: Natl Taiwan Univ, Taipei, Taiwan

  ...Abstract: Coupled Device) detector with 256 multiplied by 1024 pixels, a 16-bit analog to digital **converter** , and a pushbroom scanning mechanism enable the system to detect the radiance of an object...

...CCD camera, a light source, an X-stage and a processing unit, which are successfully **integrated** to perform spectral imaging functions. During operation, the system is supervised by operating software, which...

...saved on a hard disk for further study. For immediate display of the spectral images, **gray** - **scale** , 16-color and artificial **RGB** -color schemes are provided to enhance the presentation. For the sake of testing and demonstration...
  Descriptors: Spectrometers; Remote sensing; Bandwidth; Charge coupled devices; Analog to digital **conversion** ; Monochromators; Infrared imaging; Computer software

 15/3,K/20   (Item 1 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

07374509   Genuine Article#: 156PZ   No. References: 38
Title: Sonography under daylight conditions
Author(s): Bleck JS (REPRINT) ; Gebel M; Witt B; Schmitt KJ; Breitkopf P; WesthoffBleck M; Wagner S; Goke M; Caselitz M; Schneider A; Strassburg C; Boozari B; Manns M
Corporate Source: HANNOVER MED SCH,DIV GASTROENTEROL & HEPATOL, CARL NEUBERGER STR 1/D-30625 HANNOVER//GERMANY/ (REPRINT); SIEMENS AG,ERLANGEN USSE/D-8520 ERLANGEN//GERMANY/; SIEMENS MED SYST

INC,ULTRASOUND GRP/ISSAQUAH//WA/
Journal: ULTRASCHALL IN DER MEDIZIN, 1998, V19, N6 (DEC), P259-264
ISSN: 0172-4614   Publication date: 19981200
Publisher: GEORG THIEME VERLAG, P O BOX 30 11 20, D-70451 STUTTGART,
    GERMANY
Language: English   Document Type: ARTICLE   (ABSTRACT AVAILABLE)

Abstract: Purpose: **Gray   scale** image assessment in clinical ultrasound
    requires working in dim light or a dark room. ·Daylight...

...image brightness. Materials and Methods: We investigated the possibility
    of brightness and contrast enhancement of **coloured** adaptive linear
    look-up tables (CALUTs) and their artifact resistance. Therefore under
    real-time conditions red/brown, green and blue CALUT's were calculated
    using the **gray   scale** distribution (mean and standard deviation) of
    the actual image. The **changes** in contrast of several structural
    features (echo-poor and echogenic lesions,. artifacts) were assessed by
    ...

...sonography allows examination even in non-darkened rooms without loss of
    information. Eye adaptation to **changing** light conditions is no longer
    necessary; the offered image information is more suitable for the...

 15/3,K/21   (Item 2 from file: 34)
DIALOG(R)File   34:SciSearch(R) Cited Ref Sci
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01768044   Genuine Article#: HZ512   No. References: 244
**Title: THE EARLY DEVELOPMENT OF NEUROSONOLOGY .3. PULSATILE
    ECHOENCEPHALOGRAPHY AND DOPPLER TECHNIQUES**
Author(s): WHITE DN
Corporate Source: QUEENS UNIV/KINGSTON K7L 3N6/ONTARIO/CANADA/
Journal: ULTRASOUND IN MEDICINE AND BIOLOGY, 1992, V18, N4, P323-376
Language: ENGLISH   Document Type: REVIEW   (Abstract Available)

...Abstract: were displayed in various forms culminating in the display of
    their whole spectrum. Directional displays **added** further information
    and the ability to use short pulses enabled the Doppler shift and
    velocity...

...a tomogram of the surrounding tissues. Some of the two-dimensional
    Doppler scans had been **colour** -coded to display different velocities
    and, when these techniques were combined and the tomographic displays
    ...

...vessel were made in real time, the Doppler information continued to be
    displayed in a **colour** code to distinguish it from the **grey   scale**
    display of the tissues. As a consequence of these sophisticated
    techniques, much new information was...

...higher frequencies in the pulse, resulting from propagation through the
    skull, remains constant so that **changes** in the frequencies recorded
    by such a stationary probe represent true Doppler shifts from moving...

 15/3,K/22   (Item 1 from file: 35)
DIALOG(R)File   35:Dissertation Abs Online
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01802863 ORDER NO: AADAA-I0800105
TRANSVAGINAL COLOUR **FLOW DOPPLER ASSESSMENT OF GYNAECOLOGIC TUMOURS**
(PELVIC BLOOD FLOW)
   Author: CARTER, JONATHAN ROBERT
   Degree: M.D.
   Year: 1998
   Corporate Source/Institution: UNIVERSITY OF NEW SOUTH WALES (AUSTRALIA)
(0423)
   Source: VOLUME 60/08-B OF DISSERTATION ABSTRACTS INTERNATIONAL.
            PAGE 3862.

TRANSVAGINAL COLOUR **FLOW DOPPLER ASSESSMENT OF GYNAECOLOGIC TUMOURS**
(PELVIC BLOOD FLOW)

     italic>Aims</italic>. To evaluate the role of transvaginal **colour**
flow Doppler (TVCFD) in the assessment of gynaecologic tumours.
     <italic>Methods</italic>. The study groups...

...characteristic (ROC) curves were far from ideal. The study reported in
Chapter 4 confirmed that **grey** **scale** TVS alone, was sufficient to
support a sonographic diagnosis in 68% of scans, while CFD findings were
thought to **add** sufficient information that augmented questionable or
changed the **grey** **scale** sonographic diagnosis in 30% of scans.
Individual tumour sites were then studied. Data from Chapter 5 analyzing
ovarian tumours concluded that while **grey** **scale** findings were accurate,
CFD findings alone were unhelpful. Similar findings were obtained in
Chapter 6...

...tumours of the uterine corpus. Again in Chapter 7, examination of the
uterine cervix by **colour** Doppler was found unhelpful and did not enhance
findings obtained by **grey** **scale** scanning. Finally, blood flow
assessment of gestational trophoblastic tumours in Chapter 8 confirmed a
correlation...

 15/3,K/23   **(Item 1 from file: 94)**
DIALOG(R)File 94:JICST-EPlus
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01343770   JICST ACCESSION NUMBER: 91A0569758 FILE SEGMENT: JICST-E
JPEG standards. Colored static image compression/decompression LSI,
    MB86356A.
Fujitsu Ltd.
Gazo Denshi Gakkai Nenji Taikai Yokoshu, 1991, VOL.19th, PAGE.167-168,
    FIG.2
JOURNAL NUMBER: S0869ABQ
UNIVERSAL DECIMAL CLASSIFICATION: 681.3:621.397.3
LANGUAGE: Japanese   COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Conference Proceeding
ARTICLE TYPE: Commentary
MEDIA TYPE: Printed Publication

...ABSTRACT: screen for encoding.3) 640*400 picture elements.4)
    correspondence to colored systems such as **gray** **scale** , **RGB** ,YUV and
    CYMK.It can be applied to multi-media terminals, image filing
    equipment, electronic...
...BROADER DESCRIPTORS: **integrated** circuit...

... **modification** ;

15/3,K/24   (Item 1 from file: 95)

01334961 T99080023124
Dye from Jatropha seed
(Farbstoff aus Jatropa-Samen)
Radhika, D; Jacob, M
The Indian Textile Journal, v109, n7, pp30-33, 1999
Document type: journal article Language: English
Record type: Abstract
ISSN: 0019-6436

ABSTRACT:
...mordant. To optimise the time of extraction of dye, 15 g of Jatropa
seeds were **added** to four beakers containing 100 ml of alkaline solution.
To optimise the time for mordanting, 0.5 % of concentration of each of four
mordants of cotton were prepared. Four **colour** fastness tests of dyed.
cotton fabric were conducted such as, **colour** fastness to perspiration,
rubbing, sunlight and washing. These tests were carried out on five dyed
cotton samples according to BIS standard test procedures IS 768-1956 for
colour   **change** and IS 769-1956 for staining, using geometric **grey**
scale . It was found that Jatropa seed extract gave best results with
optimum concentration of 15...
...per 1 g of cotton fabric. 30 min time of mordanting gave best results.
The **colours** obtained on cotton fabric were dark khaki, black, biscuit
colour and greenish yellowish khaki with copper sulphate, ferrous
sulphate, cobaltous sulphate and potassium dichromate and...

...acetate respectively. Cost estimation of dyeing process indicated that
dyeing of cotton fabric in biscuit **colour** incurred high cost due to the
higher cost of cobaltous sulphate. Dyeing of cotton fabric in black was
found to be the least expensive of all **colours** due to the lower cost of
ferrous sulphate.

15/3,K/25   (Item 1 from file: 99)

1226073 H.W. WILSON RECORD NUMBER: BAST95021593
**Quantity control for JPEG image data compression using fuzzy logic
  algorithm**
Supangkat, Suhono Harso; Murakami, Keinosuke
IEEE Transactions on Consumer Electronics v. 41 (Feb. '95) p. 42-8
DOCUMENT TYPE: Feature Article ISSN: 0098-3063

ABSTRACT: The authors propose a new method of controlling the bit rate of
the **Joint** Photographic Expert Group standard for continuous-tone still
images in both **gray**   **scale** and color using the fuzzy logic algorithm.
Two inputs are required for this method: error and **change** in error. It
is shown that error accuracy can be improved by means of this...

...not only for a digital still image system, but also for motion pictures
in both **RGB** and YC format.

15/3,K/26   (Item 1 from file: 144)

/

11142150   PASCAL No.: 93-0650449
Digitally controlled video processor with accurate grey - scale
GAY M J
Motorola Inc., Geneva, Switzerland   •
Journal: IEEE transactions on consumer electronics, 1992, 38 (2) 91-100
Language: English

Digitally controlled video processor with accurate grey - scale
...hue accuracy defined by a target area in the chromaticity diagram. The
paper shows the **conversion** between hue errors and **RGB** drive tolerances
and relates these to quantisation levels. It is demonstrated that
conventional circuit techniques introduce important errors in such a
processor and **alternative** approaches are described. The implementation of
a fast beam current limiter is shown and formulae...

English Descriptors: Feedback; **Integrated** circuit; Processor; Cathode
   tube; Circuit design; Television receiver; System architecture; Digital
   control; Bias circuit; Current...

 15/3,K/27   (Item 1 from file: 233)
DIALOG(R)File 233:Internet & Personal Comp. Abs.

00480566   97PJ12-014
   SnapScan 600 -- Scanner
   Holzberg, Carol S
   PC Today , December 1, 1997 , v11 n12 p49, 1 Page(s)
   ISSN: 1040-6484
   Company Name: Bayer
   URL: http://www.agfa.com
   Product Name: Bayer SnapScan 600

   ... of SnapScan 600 ($399) a single pass scanner from Bayer Corporation
(800). Performs line art, **grayscale** , **RGB** , and CMYK scanning. Says that
the cover **adjusts** to the thickness of the material being scanned. Also
says that it will scan items...

... excellent bundle of software is an asset to the product. Continues that
the desktop scanner **integrates** with a PC by way of a SCSI-2 interface;
however, it will not work...

 15/3,K/28   (Item 2 from file: 233)
DIALOG(R)File 233:Internet & Personal Comp. Abs.

00438405   96WC10-016
   **The amazing shrinking palette -- Several new components--HVS Color,
Intellihance, and Quicture--help you slim down or speed up your graphics
work. Developers can...**
   Grunin, Lori; Dyszel, Bill; Bonner, Paul
   Windows Sources , October 1, 1996 , v4 n10 p96-106, 4 Page(s)
   ISSN: 1065-9641
   Company Name: Digital Frontiers; Extensis; WexTech; Apiary;
ForeFront
   Product Name: Digital Frontiers HVS Color; Extensis Intellihance;
WexTech Quicture; Apiary OCX Expert; ForeFront ForeHTML

... Extensis Intellihance v2.0 ($99) from Extensis (800, 503), a Photoshop plug-in that optimizes **RGB** , CMYK, and **gray - scale** images automatically. Also covers WexTech Quicture v2.0 ($129) from WexTech Systems (800, 212), a Microsoft Word **add** -in that offloads graphics in your documents to your hard disk; Apiary OCX Expert v1.0 ($249) from Apiary (501), which **converts** VCL controls to ActiveX format; ForeFront ForeHTML ($169) from ForeFront (800, 303), which **integrates** HTML input/output with ForeFront's ForeHelp help-authoring package; and WexTech's Helpsite ($249 ...

15/3,K/29   (Item 3 from file: 233)
DIALOG(R)File 233:Internet & Personal Comp. Abs.
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00387039   95MU06-015
   Intellihance Pro Collection 1.2.10: Photo-enhancing plug-in
   Benson, Jim
   MacUser , June 1, 1995 , v11 n6 p57, 1 Page(s)
   ISSN: 0884-0997
   Company Name: DPA Software
   Product Name: Intellihance Pro Collection

   ... DPA Software of Plano, TX (215), a suite of three multifunctioned Photoshop filters: one for **grayscale** images, one for **RGB** images, and one for CYMK images. Pop-up menus activate the desired effects, and if...

...of a preview option, so that you can't see exactly how the filter will **change** the image until after it is applied. Says that although the price is steep, about...

... as Photoshop, it is not a bad deal for people who regularly use Photoshop when **altering** images. Intellihance Pro Collection received three-and-one-half mice out of five. (eqb)
   Descriptors: Image Processing; Filters; Macintosh; **Add** -on; Software Review

15/3,K/30   (Item 4 from file: 233)
DIALOG(R)File 233:Internet & Personal Comp. Abs.
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00357516   94MU08-004
   Collage -- Specular's Photoshop companion breaks new ground in image composition.
   Benson, Jim
   MacUser , August 1, 1994 , v10 n8 p44, 1 Page(s)
   ISSN: 0884-0997
   Company Name: Specular International
   Product Name: Collage

   ... program, and objects can be moved to front or back and special effects can be **added** without danger of **changing** surrounding images and backgrounds. It uses 72 dpi proxies rather than 300 dpi images, so...

... with relatively small files it is quite slow. The program does not support CMYK, only **RGB** and **gray - scale** . It also lacks a masking tool. The vendor plans a major revision which may correct...

15/3,K/31   (Item 5 from file: 233)
DIALOG(R)File 233:Internet & Personal Comp. Abs.
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00291533   92IW10-359
   **Truth in advertising: DoDot is a complete toolbox -- Windows utility
suite captures, shows, and manages a wide variety of graphics formats**
   Marshall, Patrick
   InfoWorld , October 26, 1992 , v14 n43 p121, 1 Page(s)
   ISSN: 0199-6649
   Company Name: Halcyon Software
   Product Name: DoDot

   ... major fax formats. Says that you can crop, rotate, flip, and rescale
images; you can **convert** color images to **gray - scale** and to black and
white; you can create vector outlines of bit-mapped images; it will produce
either **RGB** or CMYK color separations; and DoThumbnail is a useful
image-file manager; but it would be helpful to have all the tools
 integrated   ; it cannot handle the increasingly popular JPEG compressed
file format; and it sometimes locked up...

15/3,K/32   (Item 6 from file: 233)
DIALOG(R)File 233:Internet & Personal Comp. Abs.
(c) 2003 EBSCO Pub. All rts. reserv.

00244621   91MW07-007
   Oasis 1.0
   Biedny, David
   Macworld , July 1, 1991 , v8 n7 p221-222, 2 Pages
   ISSN: 0741-8647
   Company Name: Time Arts
   Product Name: Oasis

   ...a Macintosh II with 5MB RAM, System 6.0.5, 32-bit QuickDraw, color or
 gray - scale monitor. A Wacom pressure-sensitive tablet and a 24-bit
color board are recommended. The program has the standard suite of drawing
tools; supports HSB, **RGB** , and CMY color models; and provides several
special-effects filters such as **emboss** , reveal, sharp, soft, monochrome,
and video colors. A Lightbox command allows overlapping images to create a
new image by tracing without **modifying** the underlying image or paint the
underlying image into the foreground window. Problems with the...

15/3,K/33   (Item 1 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
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06601356
PAPER2WEB GETS PAPER ONLINE
   ASIA: NEW COMMON GROUND PAPER2WEB APPLICATION
Asia Computer Weekly (XCF)   15 Mar 1998 P.18
Language: ENGLISH

...intranets, which offers an automatic solution for direct paper documents
publishing to an intranet, when **merged** with the Common Web Publisher.
Common Ground Paper2Web achieves paper documents **conversion** to
DigitalPaper, by using any ISIS-/TWAIN-compliant document scanner.
DigitalPaper is a portable, Web...

... viewed via any Java-enabled browser and maintains a paper document's original appearance. Paper2Web **converts** electronic images like JPEG, BMP, TIFF and PCX; and supports **colour** , **grey - scale** and black-and-white documents **conversion** . The application operates on Windows 95, Windows NT 4.0 Server and costs US$ 2...

15/3,K/34   (Item 2 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
(c) 2002 The Gale Group. All rts. reserv.

06484425
HP's SCANJET 5s SHIPS WITH OCR AND AUTOMATION MODE
  WORLD: NEW SCANJET 5S SCANNER LAUNCHED BY HP
Asia Computer Weekly (XCF)   22 Jun 1997 P.14
Language: ENGLISH

... US$ 235 has been launched globally by Hewlett-Packard (HP). It is a 24-bit **colour** and 8-bit **greyscale** scanner providing 300 dpi optical and 600 dpi high-quality text and images. The ScanJet 5s scanner scans any **colour** /black-and-white text, photos or line art. It can permit users to automate tasks like faxing, mailing, filing, copying and producing newsletters, flyers and Web pages. The scanner can **convert** paper documents into electronic format, links with popular programmes with drag-and-drop flexibility and works with any standard Windows printer by **attaching** through the parallel port. The ScanJet scanner provides simple electronic communications and optical character recognition...

15/3,K/35   (Item 3 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
(c) 2002 The Gale Group. All rts. reserv.

05999109
Agfa adds **colour** scanner
  HONG KONG: AGFA INTRODUCE **COLOUR** SCANNER
Computerworld Hong Kong (XDP)   26 May 1994 P. 30
Language: ENGLISH

Agfa adds **colour** scanner
  HONG KONG: AGFA INTRODUCE **COLOUR** SCANNER

It was reported in Hong Kong that Agfa has **added** a new model, Horizon Plus **Colour** Scanner, to its Horizon scanner line. The Horizon Plus is a large format flatbed **colour** CCD scanner with a resolution of up to 2,540 ppi. Horizon Plus has 15...

... scanning with FotoTune LE software, a resolution range of 20 to 2,540 ppi for **greyscale** and lineart and other features. The FotoTune LE, a **colour** management software which is included, has a multidimensional **colour** look-up tables which is used during scanning. This will replaced the two-step approach of **RGB** scanning then **conversion** to CMYK in the workstation. The Horizon Plus is designed especially for professional users.

15/3,K/36   (Item 4 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
(c) 2002 The Gale Group. All rts. reserv.

03584602
GRID COMPUTER SYSTEMS LAUNCHES GRIDCASE LAPTOP
  UK - GRID COMPUTER SYSTEMS LAUNCHES GRIDCASE LAPTOP
PC Business World (PCB)   19 June 1990   p24
ISSN: 0266-8483

...Mb hard drive and an internal 3.5 in 1.44 Mb drive, 9 in **grey   scaled**
electroluminescent EGA compatible display with 640 x 400 resolution. As an
 alternative   there is an   **integral** VGA interface to drive an external
 colour display. It also features serial, parallel, keyboard boards and
SCSI interface. A 80387 numeric coprocessor...

 15/3,K/37   (Item 1 from file: 248)
DIALOG(R)File 248:PIRA
(c) 2004 Pira International. All rts. reserv.

00360803   Pira Acc. Num.: 10280683   Pira Abstract Numbers: 08-93-PT03097
 Title: CORRECTING PROCESS-COLOR IMAGES ON PRESS
  Authors: Coudray M A
  Source: Screen Print. vol. 83, no. 4, Apr. 1993, pp 105-109, 130
  ISSN: 0036-9594
  Publication Year: 1993
  Document Type: Journal Article
  Language: English

  Abstract: Successfully overprinting **colours** and controlling transparent
shades necessitates understanding the four- **colour**   process. **Colour**
imbalance is basically caused by using inks with the wrong hue and
strength, and not managing dot gain properly. Making **colour** separations
is presented, including obtaining grey balance profiles for the inks used.
 Colour shifts in prints usually occur with cyan and magenta. The operator
should look for shifts away from **colours** on proofs. **Adjusting** ink
density to match tone values on the proof is essential for correct tone
range. **Colour** balance can be tested; usually black must be **added** . Dry
and wet trapping are explained, with the advantages of a **colour** bar, and
 colour   sequences for overprinting detailed. Finally, advice is given on
obtaining correct, and adequate, **colour**   strength, with the help of a
 grey   scale .
  Descriptors: **COLOUR** ; ...

... **COLOUR** BAR...

... **COLOUR** PRINTING...

... **COLOUR** SEPARATION...

... FOUR- **COLOUR** ;
  Section Headings: Theory of **Colour** Reproduction (8233); Techniques
(Screenprinting) (8351)

 15/3,K/38   (Item 2 from file: 248)
DIALOG(R)File 248:PIRA
(c) 2004 Pira International. All rts. reserv.

00233783   Pira Acc. Num.: 10086311   Pira Abstract Numbers: 08-91-PU02527
 Title: THE BIG PICTURE
  Authors: Hewitt M

Source: Newspaper Focus vol. 4, no. 6, June 1991, pp 43, 45, 47
Publication Year: 1991
Document Type: Journal Article
Language: English

...Abstract: a digital equivalent. Analogue wirephoto receivers can still be used as the receiver unit can **convert** the signal and improving picture quality , from 12 **grey** **scales** at present to 256 **grey** **scales** . Transmission time will fall 7.5 for **colour** to 2.5 minutes. **Attached** codes will enable automatic routing and storing.
...Descriptors: **COLOUR** ; ...

... **CONVERT** ;

15/3,K/39   (Item 3 from file: 248)
DIALOG(R)File 248:PIRA
(c) 2004 Pira International. All rts. reserv.

00227437   Pira Acc. Num.: 9985003   Pira Abstract Numbers: 08-91-PT02327
 Title: **WESTINGHOUSE AND TOKYO ELECTRIC TO PRODUCE EDGE EMITTER PRINTERS**
 Authors: Anon
 Source: Dunn Rep. vol. 9, no. 4, Mar. 1991, pp 7-8
 Publication Year: 1991
 Document Type: Journal Article
 Language: English

 Abstract: Tokyo Electric and Westinghouse Electric Corp. have set up a **joint** venture firm, Edge Emitter Technology Inc., light source as an **alternative** to lasers, LEDs and liquid crystals. Invented by Zoltan Kun and previously called a thin-film electroluminescent (TEFL) edge-emitter array, it has potential for **grey** **scale** and **colour** output and several other advantages over traditional light sources. These advantages include being lighter, smaller...
 Descriptors: **ALTERNATIVE** ; ...

... **COLOUR** ; ...

... **GREY**   **SCALE** ; ...

... **JOINT**   VENTURE

15/3,K/40   (Item 4 from file: 248)
DIALOG(R)File 248:PIRA
(c) 2004 Pira International. All rts. reserv.

00215659   Pira Acc. Num.: 9626760   Pira Abstract Numbers: 02-90-04279
 Title: **CALIBRATION: COLOR GRAPHICS SYSTEMS FOR PROFESSIONAL PUBLISHERS AND GRAPHIC DESIGNERS FROM RADIUS**
 Authors: Anon
 Source: Typeworld vol. 14, no. 17, first Sept. 1990, pp 24-25
 ISSN: 0194-4851
 Publication Year: 1990
 Document Type: Journal Article
 Language: English

...Abstract: sensing hardware and advanced software, that calibrates displays for Macs, to provide predictable and repeatable **colours** and **grey**   **scale** shades. The system displays Pantone Color simulations

accurately, enabling closely marketing screen **colour** to final output. Various lighting environments are simulated by **adjusting** the **colour** temperature of the display. Scanned images are viewed accurately using gamma correction settings. Each calibrator...

... up to five display systems, enabling cost savings, and consistent displays. The calibrator is an **integral** part of the Radius **colour** solution systems, which includes other **colour** products.
...Descriptors: **COLOUR** ; ...

... **COLOUR** TEMPERATURE...

... **GREY SCALE** ;
Section Headings: Properties defects and Quality control (2510); **Colour** reproduction (2230)

15/3,K/41 **(Item 5 from file: 248)**
DIALOG(R)File 248:PIRA

00185670 Pira Acc. Num.: 8629895 Pira Abstract Numbers: 02-89-01539
Title: **NEW TECHNOLOGY OPENS WORLD OF** GRAY SCALE **PRINTING TO 300 DPI LASER PRINTERS**

Title: **NEW TECHNOLOGY OPENS WORLD OF** GRAY SCALE **PRINTING TO 300 DPI LASER PRINTERS**
Abstract: DP-Tek, Intel and Microtek Lab introduce new **grey scale** boards enabling printing high-resolution halftones on a 300 dpi Canon based laser printer. UK Thermoteknix will shortly market a similar product. The devices comprise hardware to physically **modify** the laser printers output and halftone software for **converting gray scale** image data into printable format. Such **grey scale** printing may be an **integral** part of the next generation of page printers. Canon products in particular. The hardware utilises the potential to **alter** the diode laser output in Canon CX and SX print engines by external signals transmitted through the printers built in video interface. The general notion of **converting grey scale** data into halftone output is simply that one large pixel of a given grey shade is **converted** via a look-up table into a cell of a definite number of smaller black...
...Descriptors: **CONVERT** ; ...

... **GREY SCALE** ;
Section Headings: **Colour** reproduction (2230); Plateless printing (2160)

15/3,K/42 **(Item 6 from file: 248)**
DIALOG(R)File 248:PIRA

00162172 Pira Acc. Num.: 7658863 Pira Abstract Numbers: 05-87-01552
Title: **CAPTURING SCREENS**

Abstract: The memory-resident utility Hotshot allows users to capture, **modify** and print almost any image shown on a monitor. It handles the output from many...

... can deliver the screen as input files for Aldus' Pagemaker, Xerox' Ventura Publisher and WordPerfect. **Colours** on the captured screen may be reproduced in **gray - scale** . Printing may be by laser, dot-matrix or the HP ThinkJet. Images may be partly highlighted or erased before printing; annotations and arrows may be **added** .
...Descriptors: **COLOUR ;**
?

03372409   INSPEC Abstract Number: C89033542
Title: QuickDraw data structures for image processing
   Author(s): LaPotin, P.J.; McKim, H.L.
   Author Affiliation: Dept. of Phys. & Astron., Dartmouth Coll., Hanover,
NH, USA
   Conference Title: GIS/LIS '88 Proceedings: Accessing the World. Third
International Conference, Exhibits and Workshops   p.35-51
   Publisher: American Soc. Photogrammetry & Remote Sensing, Falls Church,
VA, USA
   Publication Date: 1988 Country of Publication: USA   2 vol. xvi+980 pp.
   p.vol.1
   Conference Sponsor: American Congress on Surveying & Mapping; American
Soc. Photogrammetry & Remote Sensing; Assoc. American Geographers; URISA
   Conference Date: 30 Nov.-2 Dec. 1988   Conference Location: San Antonio,
TX, USA
   Language: English
   Subfile: C

   Abstract: A new graphically dependent method for **converting** binary
information **into**   Mac QuickDraw operating codes is investigated. The
technique **converts** pixels of variable **gray scale** (usually 0-255)
 into scaled **RGB** intensities. The scaled intensities are stored within a
pixel map that contains information on the...

09774922   Genuine Article#: 445UB   No. References: 7
Title: Extraction of roughness properties from captured images of surfaces
Author(s): Gadelmawla ES; Koura MM; Maksoud TMA (REPRINT) ; Elewa IM;
    Soliman HH
Corporate Source: Univ Glamorgan,Sch Design & Adv Technol,Pontypridd CF37
    1DL/M Glam/Wales/ (REPRINT); Univ Glamorgan,Sch Design & Adv
    Technol,Pontypridd CF37 1DL/M Glam/Wales/; Mansoura Univ,Fac Engn, Prod
    Engn & Mech Design Dept,Mansoura//Egypt/; Ain Shams Univ,Fac Engn,
    Design & Prod Engn Dept,Cairo//Egypt/; Mansoura Univ,Fac Engn, Elect &
    Commun Engn Dept,Mansoura//Egypt/
Journal: PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART
    B-JOURNAL OF ENGINEERING MANUFACTURE, 2001, V215, N4, P555-564
ISSN: 0954-4054   Publication date: 20010000
Publisher: PROFESSIONAL ENGINEERING PUBLISHING LTD, NORTHGATE AVENUE,, BURY
    ST EDMUNDS IP32 6BW, SUFFOLK, ENGLAND
Language: English   Document Type: ARTICLE   (ABSTRACT AVAILABLE)

...Abstract: using the bitmap image file format (BMP). A program was
    written in Visual C++ to **convert** the captured **colour** images **into**
    grey scale images and then to extract the grey level for each pixel
    and to store it...
?

02774678   JICST ACCESSION NUMBER: 96A0200707 FILE SEGMENT: JICST-E
Ultra-high resolution image processor for FA and its application.
 MURAKAMI TOMOHIRO   (1)

(1) Santekku

 MURAKAMI TOMOHIRO   (1)
...ABSTRACT: On a defect detection algorithm, sub pixel measurement with
    whole screen pattern matching with a **gray   scale** image processing,
    design rule check, cluster comparison method, and processing become the
    basis. Applications to...
...BROADER DESCRIPTORS: **modification ;**
?

25/3,K/1   (Item 1 from file: 2)

7173348   INSPEC Abstract Number: B2002-03-6135C-074, C2002-03-5260B-165
  Title: Color image **watermarking in the Karhunen-Loeve transform domain**
  Author(s): Barni, M.; Bartolini, F.; De Rosa, A.; Piva, A.
  Author Affiliation: Dept. of Inf. Eng., Siena Univ., Italy

  Title: Color image **watermarking in the Karhunen-Loeve transform domain**
  Abstract: In the field of **image** **watermarking** , research has been
mainly focused on **gray scale image watermarking** ; the extension to
the color case still represents one of the open issues **watermarking**
researchers are faced with. To solve the problem of the correlation among
 image color bands, a new approach is proposed here which is based on the
exploitation of...

... de-correlation property of the Karhunen-Loeve transform (KLT). The KLT
is applied to the **red** , **green** , **blue** components of the host **image** ,
then **watermarking** is performed independently in the discrete Fourier
transform (DFT) domain of the KL-transformed bands. In order to preserve
 watermark invisibility, **embedding** is achieved by **modifying** the
magnitude of mid-frequency DFT coefficients according to an
additive-multiplicative rule. In detection, KL de-correlation is exploited
to design an optimum **watermark** decoder. In particular, based on the
Neyman-Pearson criterion, the **watermark** presence is revealed by comparing
a likelihood function against a threshold. Experimental results are
presented proving the robustness of the algorithm against the most common
 image manipulations, and its superior performance with respect to
techniques based on luminance **watermarking** .
  ...Descriptors: **image** coding...

... **image** colour analysis
  Identifiers: color **image** watermarking...

... **image** color bands correlation
  2002

25/3,K/2   (Item 1 from file: 8)

06656883   E.I. No: EIP03507780920
    **Title: A 17-Inch WXGA Full-Color OLED Display Using the Polymer Ink-Jet
Technology**
    Author: Shibusawa, Makoto; Kobayashi, Michiya; Hanari, Jun; Sunohara,
Kazuyuki; Ibaraki, Nobuki
    Corporate Source: Toshiba Matsushita Display T.C., L., Fukaya-shi
366-0032, Japan

...Abstract: luminance uniformity. A pixel circuit having Vth variation-cancellation was adopted and the circuit was **modified** to realize high uniformity and high **gray scale** reproduction under the short horizontal period operation. Correction on gamma profile difference among **RGB** OLEDs was achieved by optimizing on configuration between **integrated** source driver circuit and outer reference voltage circuit in spite of using a common source...
...that is important for the large size and high luminance display, was utilized and improved **image** quality on human feeling and actual power consumption, With these efforts a uniform **picture** with 260,000 colors and wide viewing angle was achieved. It was proved that the...

25/3,K/3   (Item 1 from file: 34)

12323073   Genuine Article#: 752LD   No. References: 25
Title: The creation of inter-ethnic images **for studies in applied psychology**
Author(s): Vanezis M; Vanezis P (REPRINT) ; Minnis H; McMillan A; Gillies M ; Smith S
Corporate Source: Univ Glasgow,Dept Forens Med & Sci,Glasgow G12 8QQ/Lanark/Scotland/ (REPRINT); Univ Glasgow,Dept Forens Med & Sci,Glasgow G12 8QQ/Lanark/Scotland/; Home Off Forens Sci Serv,Dept Forens Med Sci,London SE1 7LP//England/; Univ Glasgow,Sect Psychol Med,Glasgow G12 8QQ/Lanark/Scotland/; Royal Hosp Sick Children,Yorkhill NHS Trust, Dept Child & Family Psychiat,Glasgow/Lanark/Scotland/; Univ London,Inst Psychiat,London WC1E 7HU//England/

Title: The creation of inter-ethnic images **for studies in applied psychology**
, 2003
...Abstract: Glasgow for forensic and historical cases. It was applied to the creation of inter-ethnic **images** for use in studies to assess the response of various groups to facial appearance in the assessment of racial stereotyping.

We initially acquired a three-dimensional facial **image** from a young black (Negroid) male volunteer, using our optical laser scanning system. This **image** was then used as a template over a Caucasian skull to produce a reconstruction using facial criteria applicable to white (Caucasian) males. The other **image** used was that of the facial template of the black male.

A commercially available electronic identikit system, E-FIT(TM) was then used to **add** appropriate hair styles and open eyes to both **images** . In addition, on the 'Caucasian reconstruction' we were able to reduce the contrast and lighting on the face. This was relatively

straightforward as we were using **greyscale images** rather than
colour . The shape of the nose and lips on the white male were also
altered to be more in keeping with Caucasoid average measurements.

The resulting **images** were shown to a group of second-year
clinical psychology students and their responses are discussed. Similar
images may also be used in studies of racial stereotyping in
different categories of professionals such...

25/3,K/4   (Item 2 from file: 34)

12163567   Genuine Article#: 736PT . No. References: 31
Title: **Estimation of inflammation by Doppler ultrasound: quantitative
    changes after intra-articular treatment in rheumatoid arthritis**
Author(s): Terslev L (REPRINT) ; Torp-Pedersen S; Qvistgaard E;
    Danneskiold-Samsoe B; Bliddal H
Corporate Source: Frederiksberg Univ Hosp,Dept Rheumatol, Parker
    Inst,DK-2000 Frederiksberg//Denmark/ (REPRINT); Frederiksberg Univ
    Hosp,Dept Rheumatol, Parker Inst,DK-2000 Frederiksberg//Denmark/
Language: English   Document Type: ARTICLE   (ABSTRACT AVAILABLE)

, 2003
:...Abstract: Methods: 51 patients with RA were followed prospectively after
    an intra-articular glucocorticosteroid injection. Disease **modifying**
    antirheumatic drug treatment was kept unchanged and no further
    injections given In this observation period. At baseline, disease
    activity was estimated clinically by target **join** pain on a 100 mm
    visual analogue scale, on which the target **joint** was scored 0-3 for
    swelling and tenderness, and by ultrasound measurements of **grey
    scale** pixels, **colour** Doppler pixels, and the spectral Doppler
    resistive index (RI) as indicators of synovial swelling and
    inflammation. After four weeks, the measurements were repeated on the
    same **joint** . An observer unaware of the sequence and patient number
    evaluated the ultrasound **images** .

    Results: At one month follow up after the glucocorticosteroid
    injection, a marked decrease in the...

...a promising tool for the estimation of synovial activity in arthritis.
    After intra-articular glucocorticosteroid, **changes** in RI and fraction
    of **colour** pixels may both be used as quantitative measurements of the
    blood flow.

25/3,K/5   (Item 3 from file: 34)

11006409   Genuine Article#: 595AN   No. References: 32
Title: **Myocardial abnormalities in hypertensive patients with normal and
    abnormal left ventricular filling: a study of ultrasound tissue
    characterization and strain**

Author(s): Yuda S; Short L; Leano R; Marwick TH   (REPRINT)
Corporate Source: Univ Queensland,Princess Alexandra Hosp, Dept Med,Ipswich
    Rd/Brisbane/Qld 4102/Australia/ (REPRINT); Univ Queensland,Princess
    Alexandra Hosp, Dept Med,Brisbane/Qld 4102/Australia/

, 2002
...Abstract: in hypertensive LV hypertrophy (LVH). We sought to elucidate
    the relative contributions of myocardial structural **changes** , loading
    and hypertrophy to LV dysfunction in 113 patients: 85 with hypertensive
    LVH and 28...

...LVH patients, based on Doppler measurement of transmitral filling and
    annular velocities. All patients underwent **grey – scale** and **colour**
    tissue Doppler **imaging** from three apical views, which were stored and
    analysed off line. **Integrated** backscatter (113) and strain rate
    imaging were used to detect **changes** in structure and function;
    average cyclic variation of 113, strain rate and peak systolic strain
    ...

 25/3,K/6   **(Item 4 from file: 34)**

10984664   Genuine Article#: 591WE   No. References: 32
**Title: The uses of colour vision: behavioural and physiological
    distinctiveness of colour stimuli**
Author(s): Derrington AM (REPRINT) ; Parker A; Barraclough NE; Easton A;
    Goodson GR; Parker KS; Tinsley CJ; Webb BS
Corporate Source: Sch Psychol,Univ Pk/Nottingham NG7 2RD//England/
    (REPRINT); Sch Psychol,Nottingham NG7 2RD//England/

, 2002
Abstract: **Colour** and **greyscale** (black and white) pictures look
    different to us, but it is not clear whether the difference in
    appearance is a consequence of the way our visual system uses **colour**
    signals or a by-product of our experience. In principle, **colour**
    images are qualitatively different from **greyscale** **images** because
    they make it possible to use different processing strategies. **Colour**
    signals provide important cues for segmenting the **image** into areas
    that represent different objects and for linking together areas that
    represent the same object. If this property of **colour** ·signals is
    exploited in visual processing we would expect **colour** stimuli to look
    different, as a class, from **greyscale** stimuli. We would also expect
    that **adding** **colour** signals to **greyscale** signals should **change**
    the way that those signals are processed. We have investigated these
    questions in behavioural and...

...We find that male marmosets (all of which are dichromats) rapidly learn
    to distinguish between **colour** and **greyscale** copies of the same

images . The discrimination transfers to new **image** pairs, to new
colours and to **image** pairs in which the **colour** and **greyscale**
images are spatially different.

We find that, in a proportion of neurons recorded in the marmoset
...

...luminance stimulus.

We conclude that colour is, both behaviourally and physiologically,
a distinctive property of **images** .

25/3,K/7   (Item 1 from file: 35)
DIALOG(R)File 35:Dissertation Abs Online
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01924906 ORDER NO: AADAA-INQ74608
Texture synthesis using convolution and nonlinear mapping
  Author: Mould, David Robert
  Degree: Ph.D.
  Year: **2002**
  Corporate Source/Institution: University of Toronto (Canada) (0779)
  Source: VOLUME 63/12-B OF DISSERTATION ABSTRACTS INTERNATIONAL.
            PAGE 5938. 168 PAGES
  ISBN: 0-612-74608-9

  Year: **2002**

    ...be an octave in a summed texture.
    We extend our method's ability to generate **greyscale** texture to
permit **coloured** texture. Though good spatial coherence and continuity of
colour is observed, control over the specific **colours** expressing texture
features is difficult to accomplish within our original framework; to
address this, we present a simple method for recolouring **images** , based on
radial basis functions.

25/3,K/8   (Item 1 from file: 248)
DIALOG(R)File 248:PIRA
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00631428   Pira Acc. Num.: 20223568
 Title: Greyscale delivers quality: technology for ink jet printing
  Authors: Anon
  Source: Print Pap. Eur. vol. 14, no. 9, Dec. 2002, pp 32-33
  ISSN: 0955-7806
  Publication Year: **2002**
  Document Type: Journal Article
  Language: English

  Publication Year: **2002**
  Abstract: **Greyscale** technology will help the next generation of digital
ink jet printers to deliver high quality output. This technology produces
an **image** in a precise way providing a small **change** of **colour** and
shade. A new development in ink jet technology is a full production
greyscale print head from Xaar plc and is an innovation in **greyscale**
technology. The new Leopard **greyscale** print head can produce high
quality output on a range of substrates. The **greyscale** ink jet print head
is not a black and white technology. The print head fires a range of up to

16 different drop sizes on demand. These droplets **merge** to form different size pixels. The different sized ink drops are placed on the substrate at the same time, which results in smooth **changes** of shade and **colour** . **Greyscale** ink jet technology claims to produce near **photographic** printing output onto plastics, CDs and a range of packaging materials. Dotrix's The.factory uses Xaar's **greyscale** ink jet print heads. (www.xaar.co.uk).
?

Set	Items	Description
S1	1710713	IMAG? OR PICTURE OR PHOTO?? OR GRAPHIC? OR PHOTOGRAPH?
S2	4018	GREYSCALE OR GRAYSCALE OR (GREY OR GRAY)()SCALE?
S3	324650	COLOUR? OR COLOUR? OR RGB OR RED()GREEN()BLUE
S4	1224	(DETECT? OR DETERMIN? OR JUDG? OR EVALUAT? OR ASSESS? OR D-ISCERN? OR ANALY? OR DISTINGUISH? OR CALCULAT?) AND S1 AND S2
S5	1643	(CONVERT? OR CONVERS? OR CHANG? OR MODIF? OR ALTER? OR ADJ-UST?) AND S2
S6	4310	WATERMARK? OR WATER()MARK?
S7	8669	(DIGIT? OR ELECTRONIC?)(3N)(MARKER? OR MARKING? OR SYMBOL? OR STENCIL? OR PATTERN? OR FINGERPRINT? OR IDENTIFIER?)
S8	140	STEGANOGRAPH?
S9	4377	(EMBED? OR MERG? OR JOIN? OR INSERT? OR ATTACH? OR INTEGRA-L? OR INTEGRAT? OR EMBOSS? OR ADHER? OR ADD OR ADDED OR ADDIN-G) AND (S5 OR S6 OR S7)
S10	10251	AU=(MURAKAMI, T? OR HAYASHI, J? OR MURAKAMI T? OR HAYASHI -J?)
S11	3	S10 AND S5
S12	90	S4 AND (CONVERT? OR CONVERS? OR CHANG? OR MODIF? OR ALTER? OR ADJUST?) AND S9
S13	862386	IC=(H04N? OR G06T?)
S14	49	S12 AND S13
S15	7	S14 AND AD=19991118:20001231/PR
S16	7	S14 AND AD=20010101:20040331/PR
S17	13	(S15 OR S16)
S18	36	S14 NOT S17
S19	36	IDPAT (sorted in duplicate/non-duplicate order)
S20	34	IDPAT (primary/non-duplicate records only)
S21	83	S4(S)(CONVERT? OR CONVERS? OR CHANG? OR MODIF? OR ALTER? OR ADJUST?)(S)S9
S22	15	S21 AND S3
S23	7	S22 AND S13
S24	0	S23 AND AD=19991118:20001231/PR
S25	0	S23 AND AD=20010101:20040331/PR
S26	169	(DETECT? OR DETERMIN? OR JUDG? OR EVALUAT? OR ASSESS? OR D-ISCERN? OR ANALY? OR DISTINGUISH? OR CALCULAT?)(3N)S1(3N)S2
S27	2	S26(5N)(CONVERT? OR CONVERS? OR CHANG? OR MODIF? OR ALTER? OR ADJUST?)(5N)S3
S28	2	S27 NOT (S11 OR S23)
S29	6	S26 AND S9
S30	6	S29 NOT (S11 OR S23 OR S28)
S31	1	S30 AND AD=19991118:20001231/PR
S32	0	S30 AND AD=20010101:20040331/PR
S33	5	S30 NOT S31
S34	5	IDPAT (sorted in duplicate/non-duplicate order)
S35	5	IDPAT (primary/non-duplicate records only)

11/5/1   (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.

06921237   **Image available**
IMAGE PROCESSING UNIT AND METHOD AND STORAGE MEDIUM

PUB. NO.:   2001-148776 [JP 2001148776 A]
PUBLISHED: May 29, 2001 (20010529)
INVENTOR(s): **MURAKAMI TOMOCHIKA**
              HAYASHI JUNICHI
APPLICANT(s): CANON INC
APPL. NO.:   11-328427 [JP 99328427]
FILED: November 18, 1999 (19991118)
INTL CLASS: H04N-001/387; G06T-001/00; H04N-001/41; H04N-001/46

                          ABSTRACT
PROBLEM TO BE SOLVED: To efficiently imbed electronic watermark information
to   a   **gray   scale**   image while suppressing deterioration in the image
quality.

SOLUTION: The   image   processing   unit   that   imbeds   electronic watermark
information   to   a   monochrome   image   is provided with an entry means that
inputs   monochrome image data one pixel of which consists of one component,
a **conversion** means that **converts** the format of the monochrome data into
the format of color image data one pixel of which consists of a plurality
of components, and an imbedding means that imbeds the electronic watermark
information. not to all of the components of the color image data obtained
by the **conversion** means but to part of the components.

 11/5/2   (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

010857232   **Image available**
WPI Acc No: 1996-354185/199635
Related WPI Acc No: 1990-143781; 1992-234239
XRPX Acc No: N96-298735
   **Image processing system for both line and half-tone images - has
   discrimination and selection units to determine if point to be processed
   belong to line image or pseudo gray   scale   image area and accordingly
   treats data**
Patent Assignee: HITACHI LTD (HITA)
Inventor: FUJINAWA M; FUJISAWA H; KUROSU Y; MASUZAKI H; **MURAKAMI T**
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 5539843	A	19960723	US 88272447	A	19881117	199635	B
			US 92832700	A	19920207		

Priority Applications (No Type Date): JP 88240973 A 19880928; JP 87292026 A
   19871120
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5539843	A		54	G06K-009/38	Div ex application US 88272447
					Div ex patent US 5125045

Abstract (Basic): US 5539843 A
        The image processing system (100) has an image memory for
    temporarily storing a binary image data. A device (700) determines, on
    the basis of the stored data, one of a line image area and a pseudo
    gray   scale image area to which a point to be processed belongs. The
    stored data is scanned, on an arbitrary coordinate system, with a first
    scan window of ml*nl pixel, where ml*nl is greater than 1, when a
    pseudo **gray   scale** image area is determined.
        A **converter** (380) then transforms the scanned image data into
    multi-valued **gray   scale** image data. The data is scanned with a scan
    window of m2*n2 pixel, where m2*n2 is greater than 1, when it is
    determined that the point to be processed belongs to the line image
    area. A device **converts** the first binary image data of m2multiplied
    byn2 pixels scanned with the second scan window into second binary
    image data.
        ADVANTAGE – Can subject composite image to **conversion** process.
    Correctly discriminates between line image and pseudo half tone image
    in composite image.
        Dwg.1/41
Title Terms: IMAGE; PROCESS; SYSTEM; LINE; HALF; TONE; IMAGE; DISCRIMINATE;
    SELECT; UNIT; DETERMINE; POINT; PROCESS; BELONG; LINE; IMAGE; PSEUDO;
    GRAY; SCALE; IMAGE; AREA; ACCORD; TREAT; DATA
Derwent Class: T01; W02
International Patent Class (Main): G06K-009/38
International Patent Class (Additional): H04N-001/40
File Segment: EPI

  11/5/3   (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004   Thomson Derwent. All rts. reserv.

009106808   **Image available**
WPI Acc No: 1992-234239/199228
Related WPI Acc No: 1990-143781; 1996-354185
XRPX Acc No: N92-178344
    **Binary image processing system for document – converts data by
    calculating multivalued** gray   scale **image and adjusting image data
    so as to match output device**
Patent Assignee: HITACHI LTD (HITA)
Inventor: FUJINAWA M; FUJISAWA H; KUROSHU Y; MASUZAKI H; **MURAKAMI T**
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 5125045	A	19920623	US 88272447	A	19881117	199228	B

Priority Applications (No Type Date): JP 88240973 A 19880928; JP 87292026 A
    19871120
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
US 5125045   A   59 G06K-009/38

Abstract (Basic): US 5125045 A
        Both line image processing and dither image processing are carried
    out in parallel, and one of the processed results is selected in
    accordance with an image region discrimination result. The dither image
    processing is carried out through data **conversion** for calculating
    multivalued **grey   scale** image from the inputted image data, and
    grey   scale data **conversion** for **adjusting** the **grey   scale**
    image data so as to match an output device, and obtaining **adjusted**

grey scale image data.

Re-binarisation is carried out for re-binarising the **grey scale** image data after **grey scale conversion** . The image region discrimination for discriminating if an image region is of a line iamge or a dither image is carried out based on a ratio of the number of black or white pixels within the region to the contour line length within the range. An ordered dither image through a screened type dither matrix is discriminated in accordance with a correlation between adjacent pixel trains each having a predetermined number of pixels.

ADVANTAGE - Provides arbitrary magnification/reduction without lowering image quality.

Dwg.1/41

Title Terms: BINARY; IMAGE; PROCESS; SYSTEM; DOCUMENT; **CONVERT** ; DATA; CALCULATE; GRAY; SCALE; IMAGE; **ADJUST** ; IMAGE; DATA; SO; MATCH; OUTPUT; DEVICE

Derwent Class: T04; W02

International Patent Class (Main): G06K-009/38

File Segment: EPI

?

011656808 **Image available**
WPI Acc No: 1998-073716/199807
XRPX Acc No: N98-059087
  Vehicle detector **for parking area - has** conversion **table which is**
  used to correct grey scale image **so that** image **will have uniform**
  brightness
Patent Assignee: DOSHISU KK (DOSH-N); NAGOYA DENKI KOGYO KK (NAGM)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 9311927	A	19971202	JP 96129957	A	19960524	199807	B

Priority Applications (No Type Date): JP 96129957 A 19960524
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 9311927	A		9	G06T-001/00	

  Vehicle detector **for parking area...**

...**has** conversion **table which is used to correct** grey scale image
  so that image **will have uniform brightness**
...Abstract (Basic): The **detector** has a **colour** camera (20) which
  photographs a parking space and produces an **image** . A decoder (1)
  extracts the red, green, and blue values of the **image** . An A-D
  converter (2) digitises the **RGB** values which are used by a central
  processing unit (4) to produce an **integrated** **image** which is used to
  produced a **grey** **scale** **image** .
    ...

...A conversion table (9) is used to correct the **grey** **scale** **image** so
  that the **image** will have uniform brightness. A final **colour** **image**
  is obtained by multiplying the corrected **grey** **scale** **image** to the
  integrated **image** .

...Title Terms: **DETECT** ;
International Patent Class (Main): **G06T-001/00**

010237898 **Image available**
WPI Acc No: 1995-139155/199518
XRPX Acc No: N95-109374
  Digital printer colour **system - has memory storing pixel** colour
  values, processor alters colour **values according to** determined **gray**
  value, prioritises and determines **which to print at each location**
Patent Assignee: HEWLETT-PACKARD CO (HEWP)
Inventor: DISPOTO G J; FITZHUGH A E; MCGUIRE M D; MOTTA R J
Number of Countries: 006 Number of Patents: 006
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 5402245	A	19950328	US 94187567	A	19940127	199518	B´
EP 665679	A2	19950802	EP 95300498	A	19950126	199535	
JP 7274029	A	19951020	JP 9510597	A	19950126	199551	
EP 665679	A3	19960515	EP 95300498	A	19950126	199628	

```
EP 665679      B1  20011205  EP 95300498   A   19950126  200203
DE 69524270    E   20020117  DE 624270     A   19950126  200213
                             EP 95300498   A   19950126
```

Priority Applications (No Type Date): US 94187567 A 19940127
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
US 5402245   A   11 H04N-001/21
EP 665679   A2 E   12 H04N-001/60
   Designated States (Regional): DE FR GB IT
JP 7274029   A   11 H04N-001/60
EP 665679   A3   H04N-001/21
EP 665679   B1 E   H04N-001/60
   Designated States (Regional): DE FR GB IT
DE 69524270 E   H04N-001/60   Based on patent EP 665679
   Digital printer colour **system**...

...**has memory storing pixel** colour **values, processor** alters   colour
   values according to determined **gray value, prioritises and** determines
   which to print at each location

...Abstract (Basic): The system memory (14) stores planes of C,M,Y and K
   colour values for each pixel in the **colour** image. The processor (10)
   is coupled to the memory. The processor determines (36) the gray value
   for each pixel location. It is determined from the stored **colour**
   values (28,30,32,34). It subtracts a determined gray value per pixel
   location from...
...It creates changed **colour** values for each pixel location based on the
   gray values location in the curve. If...

...it is in the second segment, part of the gray value is added to the
   colour values and part to the K **colour** value. If it is in the third
   curve segment all the gray values are added...

...clarity, automatically determines if gray scale should be represented by
   black dot or combination of **colour** dots...
...Title Terms: **COLOUR ;**
International Patent Class (Main): **H04N-001/21** ...

... **H04N-001/60**
...International Patent Class (Additional): **H04N-001/52**

 23/3,K/3   (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

010188261   **Image available**
WPI Acc No: 1995-089515/199512
XRPX Acc No: N95-070785
   Image **drawing appts. for raster display - produces edge list,**
   indicating line segments defined by crossing points between scanning
   lines and drawing lines and colour **density, respective line segments**
   and converts **into second** adjusted **for gradation**
Patent Assignee: FUJI XEROX CO LTD (XERF)
Inventor: ONOZAWA Y
Number of Countries: 002 Number of Patents: 004
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
US 5388166   A   19950207 US 93137799   A   19931019 199512 B

/

```
JP 3223617      B2  20011029  JP 92343496   A  19921130  200171
JP 2001312735  A   20011109  JP 92343496   A  19921130  200207
                               JP 200184301  A  19921130
JP 3452049      B2  20030929  JP 92343496   A  19921130  200364
                               JP 200184301  A  19921130
```

Priority Applications (No Type Date): JP 92343496 A 19921130; JP 200184301
   A 19921130
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
US 5388166   A   22 G06K-009/00
JP 3223617   B2   17 G06T-011/20   Previous Publ. patent JP 6168334
JP 2001312735 A   13 G06T-011/40   Div ex application JP 92343496
JP 3452049   B2   13 G06T-011/40   Div ex application JP 92343496
                                       Previous Publ. patent JP 2001312735

   Image **drawing appts. for raster display...**

...list, indicating line segments defined by crossing points between
   scanning lines and drawing lines and colour density, respective line
   segments and converts into second adjusted for gradation

...Abstract (Basic): A command received at an **image** data input section is
   sent to a vector production section, in which, when the command is a
   font, it is **converted** into vector data using data stored in a font
   data storage section. A **graphic** edge list production section
   produces, from the vector data, an edge list processed in the...

...times. The edge list is referred to in units of n scanning lines by a
   grey scale processing section, by which a new edge list with which a
   portion **determined** to be an edge of a figure is to be drawn in a half
   tone...
Title Terms: **IMAGE ;**
...International Patent Class (Main): **G06T-011/20 ...**

... **G06T-011/40**

 23/3,K/4   (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

008490941   **Image available**
WPI Acc No: 1990-377941/199051   .
XRPX Acc No: N90-288037
   **Generating binary representation of image - allocates one of two colours
   to each pixel in pixel group, after determining required numbers**
Patent Assignee: CROSFIELD ELECTRONICS LTD (CROE)   .
Inventor: ROE M D; ROE M D M
Number of Countries: 004 Number of Patents: 005
Patent Family:
Patent No   Kind Date   Applicat No   Kind Date   Week
EP 403226   A   19901219 EP 90306387   A   19900612 199051 B
JP 3114365   A   19910515 JP 90152925   A   19900613 199126
US 5121223   A   19920609 US 90537734   A   19900614 199226
EP 403226   B1 19941130 EP 90306387   A   19900612 199501
DE 69014425   E   19950112 DE 614425   A   19900612 199507
                             EP 90306387   A   19900612

Priority Applications (No Type Date): GB 8913680 A 19890614
```

4

Patent Details:
Patent No  Kind Lan Pg   Main IPC     Filing Notes
EP 403226      A
    Designated States (Regional): DE GB
US 5121223     A     8 H04N-001/387
EP 403226      B1 E  12 H04N-001/40
    Designated States (Regional): DE GB
DE 69014425    E        H04N-001/40    Based on patent EP 403226

**...   allocates one of two** colours **to each pixel in pixel group, after
  determining required numbers**

...Abstract (Basic): RAM (3) and sampled by a CPU (4). Each pixel is
    allocated one of two **colours** according to an algorithm performed by
    the CPU. The transformed pixel group is then stored...

...A **colour** value is obtained for each pixel and **modified** into a unique
    value according to its group position. One **colour** is assigned to a
    **calculated** number of higher value pixels with the remaining pixels
    being assigned the second **colour** , transforming each pixel group into
    a binary representation...
...Abstract (Equivalent): in half-tone form, in which the image is scanned
    and sampled to obtain a **colour** value representing the **colour**
    component content of each sampled pixel, and in which each pixel
    corresp. to a sample of the image is assigned one of two **colours**
    (W,B), the method comprising, for each group of abutting and
    non-overlapping sampled pixels...

...of pixels in the group which are to be assigned to each of the two
    **colours** ; allocating (15) a unique sequence to the pixels; and
    assigning (16,17) one of the two **colours** to pixels in sequential
    order according to the unique sequence until the predetermined number
    of pixels of that **colour** has been assigned and thereafter assigning
    the other **colour** to the remaining pixels in the group, wherein each
    sampled pixel has a **colour** content represented by a **grey   scale**
    value where the **grey   scale** is one of a finite number of steps
    between the **colour** values of white and black, and wherein the
    allocating step (15) comprises **modifying** the sampled **grey   scale**
    value associated with each pixel within the group by **adding**
    respective unique values to each **grey   scale** value; wherein the one
    of the two **colours** is assigned to pixels in sequential order of
    **modified** grey level value according to the unique sequence until the
    predetermined number of pixels of that **colour** has been assigned (16)
    and the other **colour** is assigned to the remaining pixels in the group
    thereafter (17); characterised in that each unique value has a
    magnitude less than the value of one step in the **grey   scale ;**
    whereby each unique value **modifies** its respective **grey   scale**
    value such that no two **modified   grey   scale** values are the same...
...Abstract (Equivalent): and each pixel corresp. to a sample of the image
    is assigned one of two **colours** . For each group of abutting and
    non-overlapping sampled pixels, the number of pixels in the group which
    are to be assigned to each of the two **colours** is determined (step
    13). A unique sequence is allocated to the pixels (step 15); and one of
    the two **colours** is assigned to pixels in sequential order until the
    predetermined number of pixels of that **colour** has been assigned (step
    16). Thereafter the other **colour** is assigned to the remaining pixels
    in the group (step 17). USE - For facsimile, for...
...Title Terms: **COLOUR ;**
International Patent Class (Main): **H04N-001/387** ...

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23/3,K/5      (Item 5 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004  Thomson Derwent. All rts. reserv.

004352069
WPI Acc No: 1985-178947/198530
XRPX Acc No: N85-134575
  **Inspection appts. for determination of presence of parts in mfg. - uses
  processor to form grey-scale digitisation of image supplied to manned
  monitor or memory device**
Patent Assignee: HONEYWELL INC (HONE  )
Inventor: BOCCHI C J; EIDE D A; HART R A
Number of Countries: 008  Number of Patents: 007
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|-----------|------|------|-------------|------|------|------|---|
| EP 149231 | A | 19850724 | EP 84116206 | A | 19841222 | 198530 | B |
| US 4590511 | A | 19860520 | US 84567710 | A | 19840103 | 198623 | |
| JP 61088378 | A | 19860506 | JP 84281889 | A | 19841228 | 198624 | |
| CA 1226061 | A | 19870825 | | | | 198738 | |
| EP 149231 | B | 19900117 | | | | 199003 | |
| DE 3481084 | G | 19900222 | | | | 199009 | |
| KR 9208075 | B1 | 19920922 | KR 848466 | A | 19841228 | 199410 | |

Priority Applications (No Type Date): US 84567710 A 19840103
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|-----------|------|-----|-----|----------|--------------|
| EP 149231 | A | E | 16 | | |

    Designated States (Regional): DE FR GB IT
| EP 149231 | B | E | | | |

    Designated States (Regional): DE FR GB IT
| KR 9208075 | B1 | | | G01J-003/46 | |

...Abstract (Basic): The appts. comprises a **colour** television camera (20)
    focusing on the object in question (12) and delivering a composite
    **colour** signal to a **colour** converter (22). In the converter a
    bandpass-filtered composite signal is applied to a commercial chroma
    processor, a phase encoder and a track-and-hold circuit, to produce a
    **grey scale** analog of the hue components of the composite signal
    (21), which is then recombined with the initial information to prove a
    **modified colour** encoded signal (13) which is acceptable to the
    **image** processor (14...
...Abstract (Equivalent): Apparatus for inspecting objects with respect to
    their **colour** , characterised by first means (45) isolating the chroma
    information (i.e. hue and saturation) from a composite video **colour**
    signal; and second means (54-63) transforming said chroma information
    into an analog voltage having...
...Abstract (Equivalent): The circuit isolates the chroma information from
    composite video **colour** signal having a quadrature modulated **colour**
    subcarrier. A device transforms the phase encoded hue information of
    the quadrature modulated subcarrier into unique analog voltages. A
    device isolates the chroma information from a quadrature modulated
    **colour** subcarrier video signal. A device connected to receive the
    **colour** information supplies a pair of **alternating** voltage outputs
    comprising a reference voltage and a signal voltage having
    **distinguishable** levels uniquely representative of **distinguishable**
    hues of the video signal. Two zero crossing circuits are connected to

the **alternating** voltages respectively...

...USE/ADVANTAGE - Industrial inspection of manufactured objects, where
    **colour** is part of inspection processing capacitors. (6pp)t
...International Patent Class (Additional): **H04N-007/18** ...

... **H04N-009/64** ...

... **H04N-011/00**


 **23/3,K/6      (Item 6 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004  Thomson Derwent. All rts. reserv.

004259997
WPI Acc No: 1985-086875/198514
Related WPI Acc No: 1984-011727
XRPX Acc No: N85-064959
  **Driver circuit applying video input signal to display - provides
  automatic** gray  scale  adjustments **and achieves elimination of
  contrast tracking errors**
Patent Assignee: MOTOROLA INC (MOTI  )
Inventor: NEWTON A D; PERKINS G W
Number of Countries: 001  Number of Patents: 001
Patent Family:
Patent No      Kind   Date     Applicat No    Kind   Date      Week
US 4506292     A   19850319  US 84657467    A   19841003  198514  B

Priority Applications (No Type Date): US 84657467 A 19841003; US 82388281 A
   19820614
Patent Details:
Patent No  Kind Lan Pg   Main IPC    Filing Notes
US 4506292    A      7

... **provides automatic** gray   scale   adjustments **and achieves
  elimination of contrast tracking errors**

...Abstract (Basic): is modulated by a common contrast control signal such
   that a brightness control pedestal is **added** to each video signal path
   of a video display so that the **picture** black level does not **change**
   with contrast...

...of gain between red, green and blue video signal paths in a video
   display. Automatic **gray   scale   adjustment** and eliminatio n of
   contrast tracking errors. Accurate tracking of **colour** difference
   signals (R-Y and B-Y) in video display. Obviates the burn-in
   requirement...
International Patent Class (Additional): **H04N-005/14** ...

... **H04N-009/53**


 **23/3,K/7      (Item 7 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004  Thomson Derwent. All rts. reserv.

003024382
WPI Acc No: 1981-C4396D/198112
  Converting **one bit** image **data to** gray   scale **data - using raster**

/

**scanning half-tone** image **and thresholding resultant analogue voltage to produce six-bit** gray scale **output**
Patent Assignee: XEROX CORP (XERO )
Inventor: LIAO H H
Number of Countries: 004   Number of Patents: 004
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| EP 24902 | A | 19810311 | EP 80302925 | A | 19800822 | 198112 | B |
| US 4259694 | A | 19810331 | | | | 198116 | |
| EP 24902 | B | 19841227 | | | | 198501 | |
| DE 3069867 | G | 19850207 | | | | 198507 | |

Priority Applications (No Type Date): US 7969444 A 19790824
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| EP 24902 | A | E | | | |

   Designated States (Regional): DE FR GB

| | | | | | |
|---|---|---|---|---|---|
| EP 24902 | B | E | | | |

   Designated States (Regional): DE FR GB

Converting **one bit** image **data to** gray scale **data...**

...**using raster scanning half-tone** image **and thresholding resultant analogue voltage to produce six-bit** gray scale **output**

...Abstract (Basic): For each input bit representing a **picture** element an **integrator** sums the number of 'one' bits in a given area surrounding the current input bit and an adder sums the result to the output of an edge extractor which **determines** an edge correction valve by **calculating** the rate at which the input bits in the given area are **changing** in **colour** in orthogonal directions. The resulting output is a multi-bit per **picture** element **gray** **scale** output signal...
...Abstract (Equivalent): For each input bit representing a **picture** element an **integrator** sums the number of 'one' bits in a given area surrounding the current input bit and an adder sums the result to the output of an edge extractor which **determines** an edge correction valve by **calculating** the rate at which the input bits in the given area are **changing** in **colour** in orthogonal directions. The resulting output is a multi-bit per **picture** element **gray** **scale** output signal...
Title Terms: **CONVERT ;**
...International Patent Class (Additional): **H04N-001/40**
?

011918758    **Image available**
WPI Acc No: 1998-335668/199830
XRPX Acc No: N98-261987
  **Image converting method in computer system - involves determining colour
  assigned to pixels in each gray-level in** converted **image and specifying
  representation of** converted   image **using** determined **second** gray -
  scale **representation and** determined   colours
Patent Assignee: SUN MICROSYSTEMS INC (SUNM  )
Inventor: GAJEWSKA H
Number of Countries: 026  Number of Patents: 005
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|-----------|------|------|-------------|------|------|------|---|
| EP 851390 | A2 | 19980701 | EP 97309552 | A | 19971125 | 199830 | B |
| JP 10198336 | A | 19980731 | JP 97368871 | A | 19971229 | 199841 | |
| US 5914723 | A | 19990622 | US 96777755 | A | 19961230 | 199931 | |
| EP 851390 | B1 | 20030219 | EP 97309552 | A | 19971125 | 200314 | |
| DE 69719164 | E | 20030327 | DE 619164 | A | 19971125 | 200329 | |
| | | | EP 97309552 | A | 19971125 | | |

Priority Applications (No Type Date): US 96777755 A 19961230
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|-----------|------|-----|-----|----------|--------------|
| EP 851390 | A2 | E | 23 | G06T-011/00 | |

    Designated States (Regional): AL AT BE CH DE DK ES FI FR GB GR IE IT LI
    LT LU LV MC MK NL PT RO SE SI

| | | | | | |
|---|---|---|---|---|---|
| JP 10198336 | A | | 15 | G09G-005/36 | |
| US 5914723 | A | | | G06F-015/00 | |
| EP 851390 | B1 | E | | G06T-011/00 | |

    Designated States (Regional): DE FR GB NL SE

| | | | | | |
|---|---|---|---|---|---|
| DE 69719164 | E | | | G06T-011/00 | Based on patent EP 851390 |

...  **involves determining colour assigned to pixels in each gray-level in**
  converted **image and specifying representation of** converted   image
  **using** determined **second** gray - scale **representation and** determined
  colours

...Abstract (Basic): of pixels, each pixel has a colour associated with the
    pixel. The original image is **converted** into another image with fewer
    **colours** than the original **image** by. A first **gray - scale**
    representation of the pixels in the **converted** **image** is **determined**
    so that each pixel has a gray-value in the converted image. A second
    gray...
...the converted image. A colour assigned to the pixels in each gray-level
    in the **converted** image is **determined** and a representation of the
    **converted** **image** is specified using the **determined** second **gray -**
    **scale** representation and the **determined** **colours** . The **converted**
    **image** is displayed using the specified representation of the
    **converted** image...

009413333    **Image available**
WPI Acc No: 1993-106844/199313

XRPX Acc No: N93-081152
    Gray - scale **chart for** evaluation    adjustment   **of**  colour    image
    **scanner - consists of parallel array of refractive-index step patterns**
    **NoAbstract**
Patent Assignee: RICOH KK (RICO  )
Number of Countries: 001  Number of Patents: 001
Patent Family:
Patent No      Kind   Date     Applicat No    Kind    Date      Week
JP 5048778     A    19930226  JP 91223476    A    19910808  199313  B

Priority Applications (No Type Date): JP 91223476 A 19910808
Patent Details:
Patent No  Kind Lan Pg   Main IPC     Filing Notes
JP 5048778    A      4 H04N-001/00

    Gray - scale **chart for** evaluation   adjustment  **of**  colour    image
    **scanner...**
?

35/3,K/1      (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004  Thomson Derwent. All rts. reserv.

012933104      **Image available**
WPI Acc No: 2000-104951/200009
XRPX Acc No: N00-080603
   **Image acquisition and** integration **apparatus for X-ray imaging, using
   multiple cameras, in medical diagnosis**
Patent Assignee: TELYMONDE T D (TELY-I)
Inventor: TELYMONDE T D
Number of Countries: 001  Number of Patents: 001
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| US 6002743 | A | 19991214 | US 9621904 | A | 19960717 | 200009 | B |
| | | | US 9752460 | A | 19970714 | | |
| | | | US 9840054 | A | 19980317 | | |

Priority Applications (No Type Date): US 9840054 A 19980317; US 9621904 P
   19960717; US 9752460 P 19970714
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| US 6002743 | A | | 12 | H05G-001/64 | Provisional application US 9621904 |
| | | | | | Provisional application US 9752460 |

   **Image acquisition and** integration **apparatus for X-ray imaging, using
   multiple cameras, in medical diagnosis**

Abstract (Basic):
...        The level of input of each camera (16) is matched using
   software, by image **integrator** and central processing unit (CPU). A
   calibrating unit aligns sub-pixel level of each camera and compensates
   for the differences in **gray** **scale** level of each camera. The CPU
   **distinguishes** **images** from viewing area of each camera and
   **integrates** the images into a continuous seamless form.
...        a camera mounting panel (9) that provides direct communication
   of the cameras (16) with image **integrator** . The panel is arranged to
   provide one of the camera with adjacent camera along edges...

...area of one camera with the viewing area of adjacent camera. A
   phosphorescent screen (14) **converts** X-ray to light rays. The CPU
   includes a propagating and vectoring algorithm for providing...
...Title Terms: **INTEGRATE ;**

35/3,K/2      (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004  Thomson Derwent. All rts. reserv.

010356113
WPI Acc No: 1995-257427/199534
   **Character processing method for display system** – involves adding  up of
   **noise generated by noise generator with** gray   scale   converted **image
   data of data** conversion **unit**
Patent Assignee: MATSUSHITA DENKI SANGYO KK (MATU  )
Number of Countries: 001  Number of Patents: 001
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| JP 7160244 | A | 19950623 | JP 93308256 | A | 19931208 | 199534 | B |

Priority Applications (No Type Date): JP 93308256 A 19931208

Patent Details:
Patent No  Kind Lan Pg   Main IPC     Filing Notes
JP 7160244    A      10 G09G-005/28

...  **involves** adding **up of noise generated by noise generator with** gray
    scale    converted **image data of data** conversion **unit**

...Abstract (Basic): generating image data of a character font as per the
    passed code. A multivalue data **conversion** unit (2) **converts** the
    image data based on a **gray** **scale** . A noise generator (6) produces a
    noise signal. An edge component **detector** (3) **detects** the edge
    component of the **gray - scale** **converted** **image** data...

...A noise component amplification unit (5) **adjusts** the coarse sound
    intensity of the generated noise signal based on the edge component. A
    ...

...addition unit (4) sums up the result of the amplification unit and image
    data of **gray** **scale** **converted** by the multi value data **conversion**
    unit...
...Title Terms: **ADD** ;


 **35/3,K/3**     **(Item 3 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004  Thomson Derwent. All rts. reserv.

010222508     **Image available**
WPI Acc No: 1995-123763/199517
XRPX Acc No: N95-097902
   **Operating X-ray exposure appts.** - calculating   gray   scale
   **distribution in test** image , **generating main** image **and superimposing**
   **gray level distribution**
Patent Assignee: SIEMENS AG (SIEI  )
Inventor: AICHINGER H
Number of Countries: 003  Number of Patents: 004
Patent Family:
Patent No       Kind   Date     Applicat No    Kind   Date      Week
DE 4330787      A1   19950323   DE 4330787     A    19930910   199517  B
JP 7153592      A    19950616   JP 94216340    A    19940909   199533
US 5485501      A    19960116   US 94288043    A    19940810   199609
DE 9321455      U1   19980409   DE 93U21455    U    19930910   199820
                               DE 4330787     A    19930910

Priority Applications (No Type Date): DE 4330787 A 19930910; DE 93U21455 U
    19930910
Patent Details:
Patent No  Kind Lan Pg   Main IPC     Filing Notes
DE 4330787    A1      5 H05G-001/42
JP 7153592    A       3 H05G-001/36
US 5485501    A       5 H05G-001/64
DE 9321455    U1      8 H05G-001/42     application DE 4330787

...  calculating   gray   scale **distribution in test** image , **generating**
  **main** image **and superimposing gray level distribution**

...Abstract (Basic): period (t3), the main image is read into a second
    image memory (7) and is **added** to the image from the first memory (6
    ...
...Abstract (Equivalent): time span, activating an x-ray source to emit a

first dose pulse by selective **adjustment** of an x-ray source voltage
for dimensioning said first dose pulse so as to...

...calculating a **grayscale** value frequency of occurrence distribution of
the image data in said first image memory; and...

...dependent on said distribution and storing said primary image in a
second image memory, and **adding** said image in said first image memory
to said image in said second image memory...


**35/3,K/4      (Item 4 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004  Thomson Derwent. All rts. reserv.

010201563    **Image available**
WPI Acc No: 1995-102817/199514
XRPX Acc No: N96-048918
  **Image quality enhancement method by** adjusting **contrast - subtracting
  gray - scale  level of original image at first pixel from level at second
  pixel, multiplying difference DG by N, and** determining  gray - scale
  **level of** image  **with enhanced contrast at second pixel**
Patent Assignee: TOYOBO KK (TOYM ); TOYO BOSEKI KK (TOYM  )
Inventor: KAWASHIMA S
Number of Countries: 002  Number of Patents: 002
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|-----------|------|------|-------------|------|------|------|---|
| JP 7028997 | A | 19950131 | JP 93152072 | A | 19930623 | 199514 | B |
| US 5481376 | A | 19960102 | US 94264460 | A | 19940623 | 199607 | |

Priority Applications (No Type Date): JP 93152072 A 19930623
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|-----------|------|-----|----|----------|--------------|
| JP 7028997 | A | | 3 | G06T-005/20 | |
| US 5481376 | A | | 10 | H04N-001/40 | |

  **Image quality enhancement method by** adjusting  **contrast...**

...**subtracting** gray - scale  **level of original image at first pixel from
  level at second pixel, multiplying difference DG by N, and** determining
  gray - scale  **level of** image  **with enhanced contrast at second pixel**

...Abstract (Basic): n times where (n greater than 1) and the difference
    image of each pixel is **determined** . An **addition** constant K1 is
    **calculated** **on** **integrating** the difference **images** in the direction
    of the shifted pixel. The addition value is set as K2 and the images
    are **integrated** .
       ...

......                    Dwg. **2 / 3**
       ...


......a first electrical signal having image information in it, the image
    information including pixel and **gray - scale** level information...

...electrical signal is received from the electrical imaging device. A
    first pixel and a first **gray - scale** level are selected at the first
    pixel, and a second pixel and a second **gray - scale** level are
    selected at the second pixel from the image information. The **gray -
    scale** level of the image at the first pixel is subtracted from that at
    the second...

...A **gray - scale** level of an image with enhanced contrast at the second
  pixel is **determined** depending on the **gray - scale** level of the
  **image** with enhanced contrast at the first pixel and the value deltaGN.
  The determination comprises determining a sum of the **gray - scale**
  level of the image with enhanced contrast at the first pixel and the
  value deltaGN as the **gray - scale** level of the image with enhanced
  contrast at the second pixel, when the sum is...

...the value K1 being larger than the value K2. The first preset value K1
  is **determined** as the **gray - scale** level of the **image** with
  enhanced contrast at the second pixel, when the sum is larger than the
  value K1. The second value K2 is **determined** as the **gray - scale**
  level of the ·**image** with enhanced contrast at the second pixel, when
  the sum is smaller than the value
...Title Terms: **ADJUST** ;


 **35/3,K/5      (Item 5 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004  Thomson Derwent. All rts. reserv.

009925712     **Image available**
WPI Acc No: 1994-193423/199424
XRPX Acc No: N94-152259
  **Arithmetic processing e.g. addition, subtraction for image processing -
  performing arithmetic operation in parallel on composite operand contg.
  multi-bit data items to produce multi-bit result for each item, and
  obtaining flag bit by comparison of each component with value or range**
Patent Assignee: XEROX CORP (XERO  )
Inventor: DAVIES D
Number of Countries: 004  Number of Patents: 004
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| EP 602887 . | A1 | 19940622 | EP 93309862 | A | 19931208 | 199424 | B |
| US 5375080 | A | 19941220 | US 92993213 | A | 19921218 | 199505 | |
| EP 602887 | B1 | 20000315 | EP 93309862 | A | 19931208 | 200018 | |
| DE 69328071 | E | 20000420 | DE 628071 | A | 19931208 | 200026 | |
| | | | EP 93309862 | A | 19931208 | | |

Priority Applications (No Type Date): US 92993213 A 19921218
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| EP 602887 | A1 | E | 16 | G06F-007/48 | |

   Designated States (Regional): DE FR GB

| EP 602887 | B1 | E | | G06F-007/48 | |

   Designated States (Regional): DE FR GB

| DE 69328071 | E | | | G06F-007/48 | Based on patent EP 602887 |
| US 5375080 | A | | 17 | G06F-007/00 | |

...Abstract (Basic): USE/ADVANTAGE - E.g. for document services - facsimile
  photocopier, printer, scanner of **grey   scale** or colour images,
  searching image database, scanning envelopes for addresses,
  interpreting forms for high speed scanner, machine vision and
  process-specific print **image** correction and verification, pixel
  counting, **grey - scale** morphology, **grey - scale** rotation,
  generating error-diffused **images** and skew **detection** , finite
  difference analysis or simulation of physical phenomena. Technique
  permits efficient binary outcome operations in...
...Abstract (Equivalent): The arithmetic operation can **add** a value,

producing a carry signal if a component and the **added** value together
exceed a maximum possible value. **Alternatively** , the arithmetic
operation can subtract a value, producing a borrow signal if a
component is...

...Title Terms:  **ADD** ;

?

```
Set     Items    Description
S1     576862    IMAG? OR PICTURE OR PHOTO?? OR GRAPHIC? OR PHOTOGRAPH?
S2      10825    GREYSCALE OR GRAYSCALE OR (GREY OR GRAY)()SCALE?
S3      84113    COLOUR? OR COLOUR? OR RGB OR RED()GREEN()BLUE
S4        548    (DETECT? OR DETERMIN? OR JUDG? OR EVALUAT? OR ASSESS? OR D-
                 ISCERN? OR ANALY? OR DISTINGUISH? OR CALCULAT?)(3N)S1(3N)S2
S5       1465    (CONVERT? OR CONVERS? OR CHANG? OR MODIF? OR ALTER? OR ADJ-
                 UST?)(3N)S2
S6       3504    WATERMARK? OR WATER()MARK?
S7      10273    (DIGIT? OR ELECTRONIC?)(3N)(MARKER? OR MARKING? OR SYMBOL?
                 OR STENCIL? OR PATTERN? OR FINGERPRINT? OR IDENTIFIER?)
S8        277    STEGANOGRAPH?
S9       1685    (EMBED? OR MERG? OR JOIN? OR INSERT? OR ATTACH? OR INTEGRA-
                 L? OR INTEGRAT? OR EMBOSS? OR ADHER? OR ADD OR ADDED OR ADDIN-
                 G)(5N)(S5 OR S6 OR S7)
S10       784    AU=(MURAKAMI, T? OR HAYASHI, J? OR MURAKAMI T? OR HAYASHI -
                 J?)
S11     64372    IC=(H04N? OR G06T?)
S12        19    S4(10N)S3
S13         0    S12(S)S9
S14         0    S12(S)S6
S15         6    S12 AND S11
S16        17    COLORI?(3N)S2(3N)S1
S17         0    S16(S)S9
S18         0    S16(S)S6:S8
S19         3    S16 AND AD=19991118:20001231/PR
S20         7    S16 AND AD=20010101:20040331/PR
S21         9    S19 OR S20
S22         8    S16 NOT S21
S23         8    IDPAT (sorted in duplicate/non-duplicate order)
S24         8    IDPAT (primary/non-duplicate records only)
S25         8    S24 NOT S15
S26         1    S10 AND S5
S27       123    (CONVERT? OR CONVERS? OR CHANG? OR MODIF? OR ALTER? OR ADJ-
                 UST?)(3N)S2(5N)S3
S28         0    S27(10N)S9
S29         1    S27(S)S6
S30         1    S29 NOT (S26 OR S24 OR S15)
```

15/3,K/1   (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.

01065342
Method and device for recording and analysing images of an object
Verfahren und Anordnung zur Aufnahme und Auswertung von Bildern eines
      Gegenstandes
Procede et arrangement pour l'enregistrement et l'exploitation d'images
      d'un objet
PATENT ASSIGNEE:
  OSTERREICHISCHES FORSCHUNGSZENTRUM SEIBERSDORF GES.M.B.H., (219563), ,
    2444 Seibersdorf, (AT), (Proprietor designated states: all)
INVENTOR:
  Mayer, Konrad Dipl.Ing., Anton Baumgartner Strasse 44/C4/03/02, 1230 Wien
    , (AT)
  Krattenthaler, Werner Dr., Erlaufstrasse 36/4, 2346 Maria
    Enzersdorf-Sudstadt, (AT)
  Rubik, Michael Dipl.Ing., Hermesstrasse 83, 1130 Wien, (AT)
LEGAL REPRESENTATIVE:
  Wildhack, Helmut, Dr. Dipl.-Ing. (43827), Patentanwalte Wildhack –
    Jellinek Landstrasser Hauptstrasse 50, 1030 Wien, (AT)
PATENT (CC, No, Kind, Date):   EP 938231   A2   990825 (Basic)
                               EP 938231 A3   020612
                               EP 938231   B1   031217
APPLICATION (CC, No, Date):   EP 99890036 990202;
PRIORITY (CC, No, Date): AT 98218 980206
DESIGNATED STATES: BE; CH; DE; ES; FR; GB; IE; IT; LI; NL; PT; SE
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: **H04N-005/335**
ABSTRACT WORD COUNT: 147
NOTE:
  Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): German; German; German
FULLTEXT AVAILABILITY:
Available Text   Language   Update   Word Count
      CLAIMS A   (German)   199934   1575
      CLAIMS B   (English) 200351   1942
      CLAIMS B   (German)   200351   1556
      CLAIMS B   (French)   200351   2012
      SPEC A   (German)   199934   2750
      SPEC B   (German)   200351   2751
Total word count – document A   4326
Total word count – document B   8261
Total word count – documents A + B   12587
INTERNATIONAL PATENT CLASS: **H04N-005/335**

...CLAIMS signals of an image recorded at high resolution, in particular an
      image covering the entire **colour** spectrum or a black-and-white
      image or a **grey – scale image** , are supplied to the **evaluation**
      unit (5) in order to produce an intensity image,
      - the image signals of at least...

 15/3,K/2   (Item 2 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.

00724899

Video processing system
Videoverarbeitungssystem
Systeme de traitement video
PATENT ASSIGNEE:
   SYMAH VISION, (1433361), 83, avenue Marceau, F-75116 Paris, (FR),
      (Proprietor designated states: all)
INVENTOR:
   Medioni, Gerard, 1833 Hillsboro Avenue, Los Angeles, CA 90035, (US)
   Gideon, Guy, 6263 Lemona Avenue, Van Nuys, CA 91411, (US)
   Rom, Hillel, 5755 Saloma Avenue, Van Nuys, CA 91411, (US)
LEGAL REPRESENTATIVE:
   Fort, Jacques et al (15662), CABINET PLASSERAUD 84, rue d'Amsterdam,
      75440 Paris Cedex 09, (FR)
PATENT (CC, No, Kind, Date):   EP 684732   A2   951129 (Basic)
                               EP 684732   A3   961106
                               EP 684732   B1   990825
APPLICATION (CC, No, Date):   EP 95401234 950529;
PRIORITY (CC, No, Date): US 249348 940527
DESIGNATED STATES: BE; DE; DK; ES; FR; GB; IT; NL; SE
INTERNATIONAL PATENT CLASS: **H04N-005/272**
ABSTRACT WORD COUNT: 243
NOTE:
   Figure number on first page: NONE

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9934	1157
CLAIMS B	(German)	9934	1234
CLAIMS B	(French)	9934	1351
SPEC B	(English)	9934	7478

Total word count - document A   0
Total word count - document B   11220
Total word count - documents A + B 11220

INTERNATIONAL PATENT CLASS: **H04N-005/272**

...SPECIFICATION found and temporarily mask part of all of the target.
   This general scheme of obstacle **detection** may be implemented both in
   gray   scale (intensity) **image** space and in **RGB** color **image** space.

   REPLACER MODULE
      The replacer module takes a target image with corner locations and an
   ...

 15/3,K/3   (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2004 WIPO/Univentio. All rts. reserv.

00870079   **Image available**
IMAGE PROCESSING
TRAITEMENT D'IMAGES
Patent Applicant/Assignee:
   CONSIGNIA PLC, 148 Old Street, London EC1V 9HQ, GB, GB (Residence), GB
      (Nationality), (For all designated states except: US)
Patent Applicant/Inventor:
   TAN Robert Wei Liang, 37 Orchard Road, Melbourn, Royston, Herts SG8 6HH,
      GB, GB (Residence), GB (Nationality), (Designated only for: US)
   SWANN Robert Edward Meredith, 13 Honey Hill Mews, Pound Hill, Cambridge

CB3 0AL, GB, GB (Residence), GB (Nationality), (Designated only for: US)

Legal Representative:
  ROBSON Aidan John (agent), Reddie & Grose, 16 Theobalds Road, London WC1X 8PL, GB,

Patent and Priority Information (Country, Number, Date):
  Patent: WO 200203330 A2-A3 20020110 (WO 0203330)
  Application: WO 2001GB2946 20010629 (PCT/WO GB0102946)
  Priority Application: GB 200016222 20000630

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
  CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP
  KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD
  SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
  (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English
Filing Language: English
Fulltext Word Count: 2839

Main International Patent Class: **G06T-005/00**
Fulltext Availability:
  Detailed Description

Detailed Description
... document
  images, the binary image of the text objects may be
  segmented according to background **colour** , **calculated** from
  the original **greyscale**   **image** of the document.

  Unfortunately segmentation of an image can be difficult
  and many techniques do...

 15/3,K/4   (Item 2 from file: 349)

00846425   **Image available**
METHOD OF PRODUCING ELECTRONIC POSTCARDS
PROCEDE PERMETTANT DE PRODUIRE DES CARTES POSTALES ELECTRONIQUES
Patent Applicant/Assignee:
  DIPCARD COM APS, 31 F, Nyhavn, DK-1051 Copenhagen K, DK, DK (Residence),
    DK (Nationality), (For all designated states except: US)
Patent Applicant/Inventor:
  STEGMANN Mikkel Bille, 102, 2. tv. Hulgaardsvej, DK-2400 Copenhagen NV,
    DK, DK (Residence), DK (Nationality), (Designated only for: US)
  BLAUENFELDT Anders, 8, 5. th. Gunloegsgade, DK-2300 Copenhagen S, DK, DK
    (Residence), DK (Nationality), (Designated only for: US)
Legal Representative:
  CHAS HUDE A S (agent), 33, H.C. Andersens Boulevard, DK-1780 Copenhagen V
    , DK,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200180150 A1 20011025 (WO 0180150)
  Application: WO 2001DK249 20010410 (PCT/WO DK0100249)
  Priority Application: DK 2000635 20000414
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
  CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR
  KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE
  SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Detailed Description
... of triangles into which the quadrangle is divided, the better the
  resulting transformation. However, the **calculation** time increases
  correspondingly. The **grey scale image** is advantageously used for
  calculating the transformation parameters used on the original **colour**
  image.

  According to the invention the transformation of the colour image of the
  white surface...

 15/3,K/5   (Item 3 from file: 349)

Main International Patent Class: **H04N-001/00**

English Abstract
  ...such a way that both the illuminated area and a small portion thereof
  can be **imaged** . This allows **detection** of both the **gray scale** of a
  print line (35) and the size and **colour** of an individual dot. A dot
  printer provided with this modules gives an improved print...

 15/3,K/6   (Item 4 from file: 349)

00552891   **Image available**
LINE OBJECT VECTORIZATION IN COLOUR/GRAYSCALE IMAGES
VECTORISATION D'OBJETS LINEAIRES DANS DES IMAGES EN COULEUR/EN NIVEAUX DE GRIS
Patent Applicant/Assignee:
  KENT RIDGE DIGITAL LABS,
  WU Jian Kang,
  ZHANG Weiming,
  LI Yiqun,
  DONG Ziqiang,
Inventor(s):
  WU Jian Kang,
  ZHANG Weiming,
  LI Yiqun,
  DONG Ziqiang,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200016264 A1 20000323 (WO 0016264)
  Application: WO 98SG72 19980916 (PCT/WO SG9800072)
  Priority Application: WO 98SG72 19980916
Designated States: SG US AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT
  SE
Publication Language: English
Fulltext Word Count: 7235

Main International Patent Class: **G06T-005/00**
Fulltext Availability:
  Detailed Description

Detailed Description
... line objects in
  colour and/or grayscale images. The invention is
  particularly suitable for the **detection** of line **images** in
   colour / grayscale maps, aerial **photographs** , satellite **images** ,
  and line drawings such as engineering and architectural
  drawings.

  BACKGROUND OF THE INVENTION
  Image data...seen
  further below, the line tracing may be performed on an
  interactive basis.

  20 When **analysing** a line in a **colour / grayscale**   **image** , the human
  eye considers a number of features of the line. These
  include the colour...
?

DIALOG(R)File 348:EUROPEAN PATENTS
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00920731
**A method for measuring volumetric fluid flow and its velocity profile in a
    lumen or other body cavity**
**Verfahren   zum Messen des Volumenflusses und des Geschwindigkeitsprofils in
    einen Lumen oder einer Korperhohle**
**Procede pour mesurer le debit volumetrique et son profil de vitesse dans un
    · lumen ou dans une cavite d'un corps**
PATENT ASSIGNEE:
  EndoSonics Corporation, (1257451), 2870 Kilgore Road, Rancho Cordova,
    California 95670, (US), (applicant designated states: NL)
LEGAL REPRESENTATIVE:
  Smulders, Theodorus A.H.J., Ir. et al (21191), Vereenigde Octrooibureaux
    Nieuwe Parklaan 97, 2587 BN 's-Gravenhage, (NL)
PATENT (CC, No, Kind, Date): EP 839497 A1   980506 (Basic)
APPLICATION (CC, No, Date):   EP 96203050 961101;
PRIORITY (CC, No, Date): EP 96203050 961101
DESIGNATED STATES: NL
INTERNATIONAL PATENT CLASS: A61B-008/06
ABSTRACT WORD COUNT: 110

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text Language   Update   Word Count
     CLAIMS A (English) 9819   388
     SPEC A   (English) 9819   3616
Total word count - document A   4004
Total word count - document B   0
Total word count - documents A + B   4004

...SPECIFICATION transducer or by electronically generating of the beam
  using an array of transducers elements.
    Velocity **images** can be superimposed on the **gray - scale   image** of
  static tissues by **coloring   image** pixels according to the magnitude of
  flow. For example, from an experiment conducted in a...

DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.

00601768
**X-ray image generating apparatus and method of creating a radiographic
    image of a subject**
**Vorrichtung   zur   Erzeugung   von   Rontgenbildern   und   Verfahren   zur
    radiographischen Abbildung eines Objekts**
**Appareil   de   generation   d'image   a   rayons X et procede de creation d'une
    image radiographique d'un objet**
PATENT ASSIGNEE:
  DIGIRAY CORPORATION, (1703380), 2239 Omega Road, San Ramon, California
    94583, (US), (applicant designated states: DE;FR;GB;IT;NL)
  Albert, Richard David, (200270), 317 Hartford Road, Danville, CA 94526,
    (US), (applicant designated states: DE;FR;GB;IT;NL)
INVENTOR:
  Albert, Richard David, 317 Hartford Road, Danville, California 94526,
    (US)
  Reyna, David L., 2239 Omega Road, San Ramon, California 94538, (US)

LEGAL REPRESENTATIVE:
  McNeight, David Leslie et al (33713), McNeight & Lawrence Regent House
    Heaton Lane, Stockport Cheshire SK4 1BS, (GB)
PATENT (CC, No, Kind, Date): EP 593253 A1 940420 (Basic)
                              EP 593253 B1 971217
APPLICATION (CC, No, Date): EP 93308105 931012;
PRIORITY (CC, No, Date): US 959605 921013
DESIGNATED STATES: DE; FR; GB; IT; NL
INTERNATIONAL PATENT CLASS: H05G-001/60; H04N-005/32; G01N-023/04;
ABSTRACT WORD COUNT: 211

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text Language   Update   Word Count
       CLAIMS B (English) 9712W2   1661
       CLAIMS B (German)   9712W2   1429
       CLAIMS B (French)   9712W2   2013
       SPEC B   (English) 9712W2   16997
Total word count - document A   0
Total word count - document B   22100
Total word count - documents A + B   22100

...SPECIFICATION program of this embodiment of the invention also enables
  operator initiation of standard forms of **image** processing including
  colorizing of the **image** based on different **gray** **scale** levels in
  the image, edge enhancement, field flattening, stretching or compression
  of the image, image...

 25/3,K/3   (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2004 WIPO/Univentio. All rts. reserv.

00565099   **Image available**
**METHODS AND SOFTWARE FOR COLOR ENCODING AND DECODING GRAYSCALE IMAGES
    WITHOUT PIXEL SATURATION**
**TECHNIQUES ET LOGICIELS POUR LE CODAGE ET LE DECODAGE COULEUR D'IMAGES EN
    NIVEAUX DE GRIS, SANS SATURATION DES PIXELS**
Patent Applicant/Assignee:
  HIGMAN Ryan D,
  HIVOLTZE-JIMENEZ Alexander,
Inventor(s):
  HIGMAN Ryan D,
  HIVOLTZE-JIMENEZ Alexander,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200028472 A1 20000518 (WO 0028472)
  Application: WO 99US26218 19991105 (PCT/WO US9926218)
  Priority Application: US 98107523 19981107
Designated States: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK
  DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
  LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ
  TM TR TT TZ UA UG UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ TZ UG ZW AM AZ
  BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT
  SE BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
Publication Language: English
Fulltext Word Count: 7711

Fulltext Availability:
  Detailed Description

Detailed Description

... and tissues of lesser density in shades of blue and green. However,
the prior art **colorization** process takes a **grayscale** digital density
image of 256 levels of intensity of the density and translates it to a
maximum of...

...precision as well. The prior art colorization process also requires
storage of the both the **colorized** digital 1image and the **grayscale**
digital **image** if precise calculations are to be done, which
detrimentally increases the required space to store...

...the original black and white image by replacing the assigned color
values with the original **grayscale** values, thereby de- **colorizing** the
image and restoring its original **grayscale** tones.

BRIEF DESCRIPTION OF THE DRAWINGS AND APPENDIX
Figure 1 is a flow diagram showing...

 25/3,K/4   (Item 2 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00465365   **Image available**
DOPPLER FLOW IMAGING USING OPTICAL COHERENCE TOMOGRAPHY
**IMAGERIE DOPPLER D'ECOULEMENT PAR REPRESENTATION TOMOGRAPHIQUE DE COHERENCE
     OPTIQUE**
Patent Applicant/Assignee:
  IZATT Joseph A,
  KULKARNI Manish D,
  YAZDANFAR Siavash,
  ROLLINS Andrew,
  SIVAK Michael V,
Inventor(s):
  IZATT Joseph A,
  KULKARNI Manish D,
  YAZDANFAR Siavash,
  ROLLINS Andrew,
  SIVAK Michael V,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 9855830 A1 19981210
  Application: WO 98US11116 19980602   (PCT/WO US9811116)
  Priority Application: US 9747358 19970602
Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES
  FI GB GE GH GM GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD
  MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ
  VN YU ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH
  CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML
  MR NE SN TD TG
Publication Language: English
Fulltext Word Count: 14241

Fulltext Availability:
  Detailed Description

Detailed Description
... whose radius is smallest at the vessel's center.

  Prior to merging the two-dimensional **colorized** Doppler **image** with the
   gray - scale **image** the user may be prompted to select both positive
  and negative,

minimum threshold and maximum...72 and the multiple magnitude arrays 76
are used to respectively create a two-dimensional, **colorized** velocity
image 82 and a two-dimensional, **gray - scale** image 58 pertaining to
backscatter positions within the sample. The two dimensional velocity
image may...

 25/3,K/5   (Item 3 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00455675   **Image available**
ULTRASOUND IMAGING ENHANCEMENT METHODS AND SYSTEMS
PROCEDE ET SYSTEME D'AMELIORATION DE L'IMAGERIE PAR ULTRASONS
Patent Applicant/Assignee:
  ACUSON CORPORATION,
Inventor(s):
  GURACAR Ismayil,
  HOLLEY Gregory,
  JI Ting-Lan,
  RAMAMURTHY Bhaskar,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 9846139 A1 19981022
  Application: WO 98US7196 19980408   (PCT/WO US9807196)
  Priority Application: US 97838920 19970411
Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES
  FI GB GE GH GM GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD
  MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ
  VN YU ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH
  CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML
  MR NE SN TD TG
Publication Language: English
Fulltext Word Count: 8940

Fulltext Availability:
  Detailed Description

Detailed Description
... contrast agent.

  Brock-Fisher et al., U.S. Patent No. 5,577,505, combine a **colorized**
  non-linear **image** with a **gray - scale** **image** . The non-linear image is
  obtained via a subtraction approach, requiring insonifing the tissue at
  ...

 25/3,K/6   (Item 4 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00429139   **Image available**
MEASUREMENT OF VOLUMETRIC FLUID FLOW AND ITS VELOCITY PROFILE
MESURE DE L'ECOULEMENT VOLUMETRIQUE D'UN LIQUIDE ET SON PROFIL DE VITESSE
Patent Applicant/Assignee:
  ENDOSONICS CORPORATION,
  CESPEDES Edoardo Ignacio,
  LANCEE Charles Theodoor,
  VAN DER STEEN Antonius Franciscus Wilhelmus,
  LI Wenguang,
  BOM Nicolaas,

Inventor(s):
  CESPEDES Edoardo Ignacio,
  LANCEE Charles Theodoor,
  VAN DER STEEN Antonius Franciscus Wilhelmus,
  LI Wenguang,
  BOM Nicolaas,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 9819603 A1 19980514
  Application: WO 97NL504 19970902   (PCT/WO NL9700504)
  Priority Application: AT 896203050 19961101
Designated States: CA JP US AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT
  SE
Publication Language: English
Fulltext Word Count: 5629

Fulltext Availability:
  Detailed Description

Detailed Description
... or
  c) by electronically generating of the beam using an
  array of transducers elements.

  Velocity images can be superimposed on the gray - scale
   image of static tissues by coloring   image .pixels according
  to the magnitude of flow. For example, from an experiment
  conducted in a...

 25/3,K/7   (Item 5 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00351142   **Image available**
A METHOD FOR PROCESSING REAL-TIME CONTRAST ENHANCED ULTRASONIC IMAGES
PROCEDE DE   TRAITEMENT D'IMAGES ULTRASONIQUES EN TEMPS REEL ET A CONTRASTE
    AMELIORE
Patent Applicant/Assignee:
  MOLECULAR BIOSYSTEMS INC,
Inventor(s):
  LEVENE Harold,
  WEBSTER Bob,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 9633655 A1 19961031
  Application: WO 96US5834 19960425   (PCT/WO US9605834)
  Priority Application: US 95428723 19950425
Designated States: AL AM AT AU AZ BB BG BR BY CA CH CN CZ DE DK EE ES FI GB
  GE HU IS JP KE KG KP KR KZ LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL
  PT RO RU SD SE SG SI SK TJ TM TR TT UA UG UZ VN KE LS MW SD SZ UG AM AZ
  BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE
  BF BJ CF CG CI CM GA GN ML MR NE SN TD TG
Publication Language: English
Fulltext Word Count: 7092
Fulltext Availability:
  Detailed Description

English Abstract
  The present invention is a novel method for producing real-time
  colorized , contrast enhanced images from a sequence of grey - scale
  video images obtained during diagnostic ultrasound. The particular
  colorizing scheme varies according to which information...

Detailed Description
...   SUMMARY OF THE INVENTION
  The present invention is a novel method for producing real-time
  colorized , contrast enhanced **images** from a sequence of **grey** - **scale**
  video **images** . The particular **colorizing** scheme varies according to
  which information parameter is desired to be displayed in real-time...

 25/3,K/8   (Item 6 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00257931   **Image available**
GLYPH RASTERIZATION METHOD COMBINING ANTI-ALIASING AND GRID FITTING
PROCEDE DE CONVERSION DE GLYPHES SOUS FORME D'IMAGES VECTORIELLES EN IMAGES
    EN MODE POINT COMBINANT ANTICRENELAGE ET AJUSTEMENT DE GRILLE
Patent Applicant/Assignee:
  GO CORPORATION,
Inventor(s):
  HUNGSHUN Edward Yee,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 9406094 A1 19940317
  Application: WO 93US7956 19930824   (PCT/WO US9307956)
  Priority Application: US 92937962 19920828
Designated States: AT AU BB BG BR BY CA CH CZ DE DK ES FI GB HU JP KP KR KZ
  LK LU MG MN MW NL NO NZ PL PT RO RU SD SE SK UA VN AT BE CH DE DK ES FR
  GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG
Publication Language: English
Fulltext Word Count: 5963

Fulltext Availability:
  Detailed Description
Detailed Description
...   in step 405,
  the sampled points are processed zone by zone to determine the
  fractional **coloring** for each pixel and produce a **gray** - **scaled**
   image . The process is then complete and ends in step 406.

  The present invention uses this...
?

26/3,K/1   **(Item 1 from file: 348)**
DIALOG(R)File 348:EUROPEAN PATENTS
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00970986
COLOR CHARACTERISTIC MEASURING APPARATUS AND METHOD, AND STORAGE MEDIUM OF
IMAGE PICKUP DATA
VORRICHTUNG UND VERFAHREN ZUR MESSUNG DER FARBKARAKTERISTIK UND
SPEICHERMEDIUM FUR BILDLESEDATEN
APPAREIL ET PROCEDE DE MESURE DES CARACTERISTIQUES COLORIMETRIQUES
PATENT ASSIGNEE:
  MITSUBISHI DENKI KABUSHIKI KAISHA, (208580), 2-3, Marunouchi 2-chome
    Chiyoda-ku, Tokyo 100, (JP), (Applicant designated States: all)
INVENTOR:
  SUGIURA, Hiroaki, Mitsubishi Denki Kabushiki Kaisha, 2-3, Marunouchi
    2-chome,Chiyoda-ku Tokyo, (JP)
  KUNO, T., Mitsubishi D. Kabushiki Kaisha, 2-3, Marunouchi
    2-chome,Chiyoda-ku Tokyo, (JP)
  HAYASHI,J. Mitsubishi E. M.c. Kiki Softw , 5-1, Inadera 2-chome,
    Amagasaki-shi, Hyougo 661, (JP)
  YAMAMOTO,K. Mitsubishi E. M.c.Kiki Softw, 5-1, Inaudera
    2-chome,Amagasaki-shi, Hyougo 661, (JP)
  NISHIMURA,Y. Mitsubishi E. M. Kiki softw, 5-1, Inadera 2-chome,
    Amagasaki-shi, Hyougo 661, (JP
LEGAL REPRESENTATIVE:
  Burke, Steven David et al (47743), R.G.C. Jenkins & Co. 26 Caxton Street,
    London SW1H 0RH, (GB)
PATENT (CC, No, Kind, Date): EP 957643 A1 991117 (Basic)
                              WO 9828919 980702
APPLICATION (CC, No, Date):   EP 97949129 971218; WO 97JP4669 971218
PRIORITY (CC, No, Date): JP 96343498 961224
DESIGNATED STATES: DE; FR; GB; NL
INTERNATIONAL PATENT CLASS: H04N-017/02; H04N-009/04; H04N-009/67
ABSTRACT WORD COUNT: 111

LANGUAGE (Publication,Procedural,Application): English; English; Japanese
FULLTEXT AVAILABILITY:
Available Text Language   Update   Word Count
      CLAIMS A (English) 9946   2379
      SPEC A   (English) 9946   12891
Total word count - document A   15270
Total word count - document B   0
Total word count - documents A + B   15270

INVENTOR:
... JP)
  HAYASHI,J. Mitsubishi E. M.c. Kiki Softw ...

...SPECIFICATION FIG. 49 is a format drawing of the test chart 1 containing
  white, black, a **gray scale** 200 **changing** gradually from white to
  black, and several color charts 210 of red, green, blue, etc...

...the image pickup machine 6 can be found from the measurement values
  provided when the **gray scale** 200 **changing** gradually from white to
  black is imaged by the image pickup machine 6.
    However, the...14 become the same in every image. However, if the image
  data values of the **gray scales** 14 **change** for some factor, the image
  data values of the light output section 4, namely, the...in every image.
  However, if the image data values of the color charts of the **gray**
  scales 14 **change** for some factor, the image data values of the color

charts 2C for measuring the...every image. However, if the image data values of the color charts 14C of the **gray   scales** 14 **change** for some factor, the image data values of the light output section 4 for measuring...

?

30/3,K/1   (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01423999
Method for generating and detecting marks
Verfahren zum Erzeugen und Auffinden von Wasserzeichen
Methode pour generer et detecter des filigranes
PATENT ASSIGNEE:
  CANON KABUSHIKI KAISHA, (542361), 30-2, 3-chome, Shimomaruko, Ohta-ku,
    Tokyo, (JP), (Applicant designated States: all)
INVENTOR:
  Fletcher, Peter Alleine, 56 Lilyfield Road, Rozelle, New South Wales 2039
  , (AU)
  Larkin, Kieran Gerard, 22 Mitchell Street, Putney, New South Wales 2112,
  (AU)
LEGAL REPRESENTATIVE:
  Beresford, Keith Denis Lewis et al (28276), Beresford & Co., 2-5 Warwick
    Court, High Holborn, London WC1R 5DJ, (GB)
PATENT (CC, No, Kind, Date): EP 1202552 A2 020502 (Basic)
APPLICATION (CC, No, Date):   EP 2001309049 011025;
PRIORITY (CC, No, Date): AU 00PR1050 001027
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
  LU; MC; NL; PT; SE; TR
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: H04N-001/32
ABSTRACT WORD COUNT: 139
NOTE:
  Figure number on first page: 5

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200218	6435
SPEC A	(English)	200218	8778
Total word count - document A			15213
Total word count - document B			0
Total word count - documents A + B			15213

...SPECIFICATION the properties of LRHFs. Fig. 4 shows a schematic diagram
  of a process 450 of **watermarking** an image 400 or document with a
  pattern 410, such as the real part of a LRHF gmk)) shown in Fig. 3A. The
  pattern 410, which may be called a **watermark** , is simply added to the
  image 400 to form a **watermarked** image 420. If the image 400 is in
  colour, then the pattern 410 is added to the luminance part of a colour
  image 400. This allows the **watermark** to survive when the **watermarked**
  image is **converted** from **colour** to a **greyscale** representation.
    Preferably, the pattern 410 component in the watermarked image 420 is
  invisible or imperceptible...
?

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Results Key:
JNL = Journal or Magazine   **CNF** = Conference   **STD** = Standard

---

1 **Enforcement of copyright laws for multimedia through blind, detectable, reversible watermarking**
Bartolini, F.; Bini, G.; Cappellini, V.; Fringuelli, A.; Meucci, G.; Piva, A.; Barni, M.;
Multimedia Computing and Systems, 1999. IEEE International Conference on , Volume: 2 , 7-11 1999
Pages:199 - 203 vol.2

[Abstract]   [PDF Full-Text (436 KB)]   IEEE CNF

---

2 **Exploiting the cross-correlation of RGB-channels for robust watermarking of color image**
Piva, A.; Bartolinin, F.; Cappellini, V.; Barni, M.;
Image Processing, 1999. ICIP 99. Proceedings. 1999 International Conference on , Volume: 1 , 1
Pages:306 - 310 vol.1

[Abstract]   [PDF Full-Text (404 KB)]   IEEE CNF

---

3 **Mask building for perceptually hiding frequency embedded watermarks**
Bartolini, F.; Barni, M.; Cappellini, V.; Piva, A.;
Image Processing, 1998. ICIP 98. Proceedings. 1998 International Conference on , Volume: 1 , 4 1998
Pages:450 - 454 vol.1

[Abstract]   [PDF Full-Text (720 KB)]   IEEE CNF

---

4 **DCT-based watermark recovering without resorting to the uncorrupted original image**
Piva, A.; Barni, M.; Bartolini, F.; Cappellini, V.;
Image Processing, 1997. Proceedings., International Conference on , Volume: 1 , 26-29 Oct. 1997
Pages:520 - 523 vol.1

[Abstract]   [PDF Full-Text (592 KB)]   IEEE CNF

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5 **Robust watermarking of still images for copyright protection**
Barni, M.; Bartolini, F.; Cappellini, V.; Piva, A.;
Digital Signal Processing Proceedings, 1997. DSP 97., 1997 13th International Conference on , Volume: 2 , 2-4 July 1997
Pages:499 - 502 vol.2

[Abstract]   [PDF Full-Text (612 KB)]   IEEE CNF

```
File    9:Business & Industry(R)  Jul/1994-2004/Mar 30
           (c) 2004   The Gale Group
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           (c) 2004 The HW Wilson Co
File  570:Gale Group MARS(R) 1984-2004/Mar 31
           (c) 2004 The Gale Group
File  608:KR/T Bus.News. 1992-2004/Mar 31
           (c)2004 Knight Ridder/Tribune Bus News
File  620:EIU:Viewswire 2004/Mar 30
           (c) 2004 Economist Intelligence Unit
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           (c) 2004 PR Newswire Association Inc
File  621:Gale Group New Prod.Annou.(R) 1985-2004/Mar 31
           (c) 2004 The Gale Group
File  623:Business Week 1985-2004/Mar 30
           (c) 2004 The McGraw-Hill Companies Inc
File  624:McGraw-Hill Publications 1985-2004/Mar 30
           (c) 2004 McGraw-Hill Co. Inc
File  634:San Jose Mercury  Jun 1985-2004/Mar 30
           (c) 2004 San Jose Mercury News
File  635:Business Dateline(R) 1985-2004/Mar 31
           (c) 2004 ProQuest Info&Learning
File  636:Gale Group Newsletter DB(TM) 1987-2004/Mar 31
           (c) 2004 The Gale Group
File  647:CMP  Computer Fulltext 1988-2004/Mar W3
           (c) 2004 CMP Media, LLC
File  696:DIALOG Telecom. Newsletters 1995-2004/Mar 30
           (c) 2004 The Dialog Corp.
File  674:Computer News Fulltext 1989-2004/Mar W3
           (c) 2004 IDG Communications
File  810:Business Wire 1986-1999/Feb 28
```

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Set      Items    Description
S1    10269963    IMAG? OR PICTURE OR PHOTO?? OR GRAPHIC? OR PHOTOGRAPH?
S2       40976    GREYSCALE OR GRAYSCALE OR (GREY OR GRAY)()SCALE?
S3      679004    COLOUR? OR COLOUR? OR RGB OR RED()GREEN()BLUE
S4         550    (DETECT? OR DETERMIN? OR JUDG? OR EVALUAT? OR ASSESS? OR D-
                  ISCERN? OR ANALY? OR DISTINGUISH? OR CALCULAT?)(3N)S1(3N)S2
S5        2040    (CONVERT? OR CONVERS? OR CHANG? OR MODIF? OR ALTER? OR ADJ-
                  UST?)(3N)S2
S6       50718    WATERMARK? OR WATER()MARK?
S7       28177    (DIGIT? OR ELECTRONIC?)(3N)(MARKER? OR MARKING? OR SYMBOL?
                  OR STENCIL? OR PATTERN? OR FINGERPRINT? OR IDENTIFIER?)
S8         863    STEGANOGRAPH?
S9        5371    (EMBED? OR MERG? OR JOIN? OR INSERT? OR ATTACH? OR INTEGRA-
                  L? OR INTEGRAT? OR EMBOSS? OR ADHER? OR ADD OR ADDED OR ADDIN-
                  G)(5N)(S5 OR S6 OR S7)
S10        225    AU=(MURAKAMI, T? OR HAYASHI, J? OR MURAKAMI T? OR HAYASHI -
                  J?)
S11        107    S5(3N)S3
S12         83    S11(S)S1
S13          0    S12(S)S9
S14          0    S12(S)S6
S15         31    S12 AND PY=2000:2004
S16         52    S12 NOT S15
S17         31    RD S16 (unique items)
S18          0    S10 AND S1(S)S2(S)S3
S19          0    S10 AND S2
S20          2    S6(3N)S3(3N)S1
S21          2    RD S20 (unique items)
S22          0    S11(S)S9
```

17/3,K/1   (Item 1 from file: 15)

01781428 04-32419
Corel Photo-Paint 8
Biedny, David
Macworld v16n3 PP: 36 Mar 1999
ISSN: 0741-8647 JRNL CODE: MAW
WORD COUNT: 809

...TEXT: History brush, which can restore the image to any state in the
History palette.

However,   **Photo** -Paint's biggest failings are in performance and
reliability. Painting in the program is sluggish...

...five seconds to open in Photoshop 5.0 took a whopping minute to open in
 Photo -Paint (thankfully, file saves were more on par with those in
Photoshop). Slow performance also marred **RGB** -to- **gray** - **scale** mode
 conversion , as well as **Photo** -Paint's unique ability to preview a file,
make a selection, and open only that portion of the **image** .

On a more disturbing note, PhotoPaint crashed frequently on a Macintosh
with plenty of RAM...

 17/3,K/2   (Item 2 from file: 15)

01656008 03-06998
Photoshop pumps up
McClelland, Deke
Macworld v15n7 PP: 64-71 Jul 1998
ISSN: 0741-8647 JRNL CODE: MAW
WORD COUNT: 3359

...TEXT: my images and fix them.

Adobe's intentions are commendable. The program is trying to **convert**   **RGB**
 and **gray** - **scale**   **images** created on a foreign system so that they
display accurately on yours. But the conversion works only if your monitor
is properly calibrated, the **image** contains a profile for the source
monitor, and the source monitor itself was properly calibrated...

 17/3,K/3   (Item 3 from file: 15)

01568060 02-19049
**Computer-assisted   environmental   design   system: Regional   information
visualizer**
Yoshikawa, Shin
International Planning Studies v2n2 PP: 211-228 Jun 1997
ISSN: 1356-3475 JRNL CODE: IPS
WORD COUNT: 3953

...TEXT: is scanned, and is imported as a PICT file by PhotoShop.

When we compose several **photographs** , we have two major problems: colour differences depending on the different conditions while taking the **photographs** , developing and printing, and scale differences depending on different altitudes of the shooting areas. These must be adjusted. After setting one of 18 **photographs** as a standard, the colour differences are adjusted to it by the **gray scale** and **colour** -tone **adjustment** function of PhotoShop. The scale differences are adjusted by the transformation function of PhotoShop, too. Then the 18 **photographs** are composed into one **image** . This **image** is exported to the renderers in PICT format after adjustments to the size and resolution (Figure 11). The renderers are rendering the terrain model with the aerial **photographic image** . The light source is placed in the same direction as the sun at the time when the **photographs** were taken. Because the terrain model is three-dimensional, we can look at it from every viewpoint. Figures 19 and 20 are **photographic** mapping **images** viewed from a low angle. They are three times the actual heights. Conclusion

(Illustration Omitted...

17/3,K/4 (Item 4 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
(c) 2004 ProQuest Info&Learning. All rts. reserv.

00633409 92-48349
Art Beat
Abes, Cathy
Macworld v9n10 PP: 51-54 Oct 1992
ISSN: 0741-8647 JRNL CODE: MAW
WORD COUNT: 1342

...TEXT: a third-party filter that's not part of Photoshop) to simulate electronic static.

To **convert gray** - **scale** file to **RGB** color, he used Adjust Hue/Saturation (**Image** menu). Then he copied the colorized textures and chose Load Selection (under Select menu) to...

... photos originated as gray-scale scans that he assembled in a Photoshop file. Then he **converted** the **gray** - **scale** file to **RGB** , using Hue/Saturation to give it a sepia tone. Fishauf used the Blend tool to produce the top-to-bottom color transition between the three **photos** . In the Blend Tool Options dialog box, he set Mode to Color Only and Color...

17/3,K/5 (Item 1 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)
(c) 2004 The Gale group. All rts. reserv.

05401561 SUPPLIER NUMBER: 55166483 (USE FORMAT 7 OR 9 FOR FULL TEXT)
ArcSoft PhotoStudio 2.0 and PhotoFantasy.(digital photography software programs)
Drafahl, Jack; Drafahl, Sue
Petersen's Photographic, 27, 4, 48(2)
August, 1998
ISSN: 0199-4913 LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 1441 LINE COUNT: 00110

... output to larger or smaller file sizes.

The "convert" pull-down menu allows you to **change** your **image** to **grayscale** , **RGB** , CYMK, or to a 256-color palette. The CYMK menu even lets you create your own CYMK separation values. If you want to separate the **picture** into **images** representing each color, you can select the "separate to" and the program will create a black-and-white **image** for each color channel.

Most of the creative functions found in PhotoStudio are found under ...

17/3,K/6   (Item 2 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)

04450303   SUPPLIER NUMBER: 17891985   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Using channels as layers to apply subtle effects. (colorizing 19th-century monochrome photos without losing the old-fashioned look) (Product Support) (Brief Article)
Abes, Cathy
Macworld, v13, n3, p154(2)
March, 1996
DOCUMENT TYPE: Brief Article   ISSN: 0741-8647   LANGUAGE: English
RECORD TYPE: Fulltext
WORD COUNT: 619   LINE COUNT: 00050

...   set to Mountainous produced an embossed effect on the selected areas.
    1. Rice scanned the **photo** that became the centerpiece of his **image** in **Grayscale** mode, then **converted** it to **RGB** so he could work within channels. Although he now had red, green, and blue channels, each channel contained the same data because the **image** was still in gray scale.
    2. Rice applied the Canvas filter from Adobe Gallery Effects...

17/3,K/7.   (Item 3 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)

04334640   SUPPLIER NUMBER: 17403411   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Cool crossfades: make a smooth transition between any two images with a mask containing a gradation. (Graphics How-To) (Tutorial)
Ashford, Janet
MacUser, v11, n11, p114(1)
Nov, 1995
DOCUMENT TYPE: Tutorial   ISSN: 0884-0997   LANGUAGE: English
RECORD TYPE: Fulltext
WORD COUNT: 468   LINE COUNT: 00038

...   reads 2.5 and the black output level is 60.
    3.Converting to color. After **converting** the **image** from **grayscale** to **RGB** (Mode: **RGB**), Odam selects the red channel (Command-2), uses the Select All command (Select: All), and fills it (Edit: Fill) with black. The resulting **image** contains only green and blue, making a bright-cyan wire frame.
    4.Outlining the mask...

17/3,K/8   (Item 4 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)

04123527   SUPPLIER NUMBER: 15548871   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Graphically speaking. (1,001 Tips: Presentations, DTP & Drawing)
PC-Computing, v7, n8, p198(7)
August, 1994
ISSN: 0899-1847   LANGUAGE: ENGLISH   RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 4953   LINE COUNT: 00387

...   out your red-and-blue glasses and prepare to see 3-D. First, if
your **image** is a **grayscale** , **convert** it to **RGB** color. Next, select
Image , Effects, Prism. Shift the red channel to -3 and the green channel
to 3; don't adjust the blue channel. Click on OK to apply the effect.
Finally, give the **image** a gray

 17/3,K/9   (Item 5 from file: 47)
DIALOG(R)File   47:Gale Group Magazine DB(TM)
(c) 2004 The Gale group. All rts. reserv.

03964617   SUPPLIER NUMBER: 14475124   (USE FORMAT 7 OR 9 FOR FULL TEXT)
The Gaussian glow. (using channel operations in the Photoshop image
  processing program to add a new glow to graphic images) (Photoshop Tips
  and Tricks)
Krause, Kai
MacUser, v9, n12, p170(2)
Dec, 1993
ISSN: 0884-0997   LANGUAGE: ENGLISH   RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 1179   LINE COUNT: 00083

...ABSTRACT: the first copy, the Gaussian Blur filter is applied. For the
second, the image is **converted** from **RGB** to **gray   scale** via the
Grayscale mode. The mask is created by modifying the gray-scale copy via...
...   results (see Figure 2).
    Let's move next to the second copy of our original **image** : We need to
turn this one into a **gray** – **scale   image** . **Convert** it from **RGB** to
gray scale by selecting Grayscale from the Mode menu (when Photoshop asks
if you...

 17/3,K/10   (Item 6 from file: 47)
DIALOG(R)File   47:Gale Group Magazine DB(TM)
(c) 2004 The Gale group. All rts. reserv.

03870747   SUPPLIER NUMBER: 13508488   (USE FORMAT 7 OR 9 FOR FULL TEXT)
The image crusaders: 12 screen capture & conversion utilities. (Software
  Review) (overview of 10 evaluations of screen-capture programs)(includes
  related articles on suitability-to-task ratings, Editors' Choices, image
  compression, troubleshooting conversions) (Evaluation)
Grunin, Lori
PC Magazine, v12, n7, p221(23)
April 13, 1993
DOCUMENT TYPE: Evaluation   ISSN: 0888-8507   LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 5051   LINE COUNT: 00390

...   based on the same procedure, known as a Discrete Cosine Transform
(DCT).
    Before compressing an **image** , the software **converts** the **RGB** or
gray – **scale** information into another color space known as YUV. In the YUV
space, all the important resolution information of an **image** is in the Y

(luminance) channel, while the color information is translated into two
other...

 17/3,K/11   (Item 1 from file: 141)
DIALOG(R)File 141:Readers Guide
(c) 2004 The HW Wilson Co. All rts. reserv.

03822134   H.W. WILSON RECORD NUMBER: BRGA98072134   (USE FORMAT 7 FOR
FULLTEXT)
ArcSoft PhotoStudio 2.0 and PhotoFantasy.
Drafahl, Jack.; Drafahl, Sue.
Petersen's Photographic v. 27 no4 (Aug. 1998) p. 48-9
WORD COUNT: 1453

   (USE FORMAT 7 FOR FULLTEXT)

TEXT:
...   output to larger or smaller file sizes.
    The "convert" pull-down menu allows you to **change** your **image** to
grayscale , **RGB** , CYMK, or to a 256-color palette. The CYMK menu even lets
you create your own CYMK separation values. If you want to separate the
picture into **images** representing each color, you can select the
"separate to" and the program will create a black-and-white **image** for
each color channel.
    Most of the creative functions found in PhotoStudio are found under...

 17/3,K/12   (Item 1 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

11769966   SUPPLIER NUMBER: 57844548   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Looking good has never been so easy.
Halinda, Steve
Computer Dealer News, 15, 44, 42
Nov 19, 1999
ISSN: 1184-2369   LANGUAGE: English   RECORD TYPE: Fulltext
WORD COUNT: 3042   LINE COUNT: 00227

...   a mix of both warm and cold colours. The black and white image was
a **greyscale** **conversion** one of the **colour** **images** , and contained a
full range of 256 different levels of grey.
    Each image was printed...

 17/3,K/13   (Item 2 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

10536695   SUPPLIER NUMBER: 21201440   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Tapping solutions for color management.(Cover Story)
Sharples, Hadley
Graphic Arts Monthly, v70, n9, p42(5)
Sept, 1998
DOCUMENT TYPE: Cover Story   ISSN: 1047-9325   LANGUAGE: English
RECORD TYPE: Fulltext; Abstract
WORD COUNT: 3057   LINE COUNT: 00255

...   selective color corrections, and color-separates images. The

software also processes black-and-white images, **converts RGB** to **gray -scale** , detects **image** characteristics, balances tone, and sets highlight and shadow.
        Pantone has announced Pantone ColorReady, a software...

17/3,K/14   (Item 3 from file: 148)

10233467   SUPPLIER NUMBER: 20746536   (USE FORMAT 7 OR 9 FOR FULL TEXT)
**Low-cost image editor shoots for novice users.(MicroFrontier's Digital
   Darkroom 1.2.)(Product Announcement)**
Follmann, Christina
MacWEEK, v12, n21, p11(1)
June 1, 1998
DOCUMENT TYPE: Product Announcement   ISSN: 0892-8118   LANGUAGE:
   Engllish   RECORD TYPE: Fulltext
WORD COUNT: 334   LINE COUNT: 00030

...   images and rotate images or selections with a single click; change
resolutions; and scale and **convert** from **RGB** to **gray scale** and back.
     The program will allow multiple levels of undo and support
third-party, Adobe...

17/3,K/15   (Item 4 from file: 148)

09040688   SUPPLIER NUMBER: 18783618   (USE FORMAT 7 OR 9 FOR FULL TEXT)
**Binuscan to rev ColorPro suite. (ColorPro 3.0 color-calibration and
   separation software)(Brief Article)(Product Announcement)**
Rothenberg, Matthew
MacWEEK, v10, n40, p16(2)
Oct 21, 1996
DOCUMENT TYPE: Brief Article Product Announcement   ISSN: 0892-8118
LANGUAGE: English   RECORD TYPE: Fulltext
WORD COUNT: 335   LINE COUNT: 00029

...   lets users set image-processing options directly within XPress.
According to Binuscan, the software can **convert RGB** to **gray scale**
in real time, process CMYK **images** , import **Photo** CD files, resample
images to match RIP resolutions, and automate color correction and
separation.
        BinuCD exports Photo CD images...

17/3,K/16   (Item 5 from file: 148)

06408853   SUPPLIER NUMBER: 13433944   (USE FORMAT 7 OR 9 FOR FULL TEXT)
**Photoshop plugs into Photo CDs. (Kodak Photo CD Acquire Module for Adobe
   Photoshop) (Brief Article) (Product Announcement)**
Rothenberg, Matthew
MacWEEK, v7, n7, p32(1)
Feb 15, 1993
DOCUMENT TYPE: Product Announcement   ISSN: 0892-8118   LANGUAGE:
   ENGLLISH   RECORD TYPE: FULLTEXT

WORD COUNT: 215   LINE COUNT: 00017

...   crop it; and manipulate its color balance, brightness and
saturation. The software includes metrics for **gray - scale** and video- **RGB
conversion** , as well as three monitor white points and three gamma
settings.
         The module ships with...

 17/3,K/17   (Item 6 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

05855031   SUPPLIER NUMBER: 12162011   (USE FORMAT 7 OR 9 FOR FULL TEXT)
**Lift and separate. (Ad-hoc Graphics' Finalia for Windows) (Software Review)
   (Evaluation)**
Bennett, John
PC User, n182, p63(1)
April 8, 1992
DOCUMENT TYPE: Evaluation   ISSN: 0263-5720   LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 814   LINE COUNT: 00064

...   a colour scan in Finalia will give better results than a greyscale
scan of the **image** .
     A Mode palette allows you to switch from interactive Preview to
individual separations, or combinations...

 17/3,K/18   (Item 7 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

05850340   SUPPLIER NUMBER: 12201195   (USE FORMAT 7 OR 9 FOR FULL TEXT)
**OneScanner, Ofoto make conversion to color in the fall. (Apple developing
   color versions of OneScanner and Ofoto scanning software)**
Rothenberg, Matthew
MacWEEK, v6, n17, p1(2)
April 27, 1992
ISSN: 0892-8118   LANGUAGE: ENGLISH   RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 526   LINE COUNT: 00042

...   conversion; conversion of RGB (red, green, blue) data to CMYK
(cyan, magenta, yellow, black) TIFF **images** ; and automatic detection of
color or black-and-white originals. Al>Background **image** processing.
     >Other image controls, including image-enhancement technology that
will sharpen scans to an effective...

 17/3,K/19   (Item 8 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

05108064   SUPPLIER NUMBER: 10426046   (USE FORMAT 7 OR 9 FOR FULL TEXT)
**Windows shopping. (mini-reviews of four applications for the Windows 3.0
   graphical user interface) (Software Review) (evaluation)**
Moss, David
PC User, n151, p66(3)
Jan 30, 1991
DOCUMENT TYPE: evaluation   ISSN: 0263-5720   LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 2618   LINE COUNT: 00216

...   able to crop an image, or zoom m on it using up to 32x
magnification, **colour   images** can be **changed** to **greyscale** , and both
colour and **greyscale   images** can be **converted** to monochrome by using
dithering or colour separation.
        DoDOT will work with VGA, Super VGA...

 17/3,K/20   (Item 9 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

03865817   SUPPLIER NUMBER: 07292957   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Discovery Software buys Studiotronics in a flash. (Studiotronics Inc.)
Whitmer, Clair
MacWEEK, v3, n5, p49(1)
Jan 31, 1989
ISSN: 0892-8118   LANGUAGE: ENGLISH   RECORD TYPE: FULLTEXT
WORD COUNT: 202   LINE COUNT: 00016

...   first set of retail products, including ColorSet, a system that
uses software and physical RGB (**red** , **green** , **blue**) filters to **convert**
  images scanned on **gray - scale** scanners into color **images** .
      Within three days, the two companies had signed preliminary papers
for Discovery to purchase 65...

 17/3,K/21   (Item 10 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

03322372   SUPPLIER NUMBER: 05219085   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Picking the right printer interface.
Williams, Randy; Busse, William
Machine Design, v59, p93(4)
Sept 24, 1987
ISSN: 0024-9114   LANGUAGE: ENGLISH   RECORD TYPE: FULLTEXT
WORD COUNT: 2066   LINE COUNT: 00166

...   a fiber-optic cathode-ray tube to produce continuous-tone images on
light-sensitive paper. **Red - green - blue** analog signals are **converted**
to monochrome **gray   scale** .
        Photo: Shinko Data Format
        Photo: Seiko Data Format
        When a digital interface is used, a...

 17/3,K/22   (Item 1 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

01928030   SUPPLIER NUMBER: 18175366   (USE FORMAT 7 OR 9 FOR FULL TEXT)
PageMaker gives more to prepress. (Adobe Systems' PageMaker 6.0 for Windows
  desktop publishing software)(includes related articles about PageMaker
  6.0 features, Kodak technology and HTML Author Plug-In) (Software
  Review)(Evaluation)
Jarrett, Dennis
PC User, n274, p56(4)

Jan 10, 1996
DOCUMENT TYPE: Evaluation   ISSN: 0263-5720   LANGUAGE: English
RECORD TYPE: Fulltext; Abstract
WORD COUNT: 3404   LINE COUNT: 00272

...   digital form.
      When you use Place to open a PCD file, you can crop the **image** ,
define its final size and resolution, choose a sharpening level, and opt
for automatic **colour** balancing and **greyscale** **conversion** as part of
the process.
      It's a shame this cleverness doesn't extend to...

 17/3,K/23   (Item 2 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

01825816   SUPPLIER NUMBER: 17213883   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Color systems and software.(Drupa, part III: color - management, workflow,
   systems, scanners, printers, etc.)
Seybold Report on Publishing Systems, v24, n21, p37(12)
July 21, 1995
ISSN: 0736-7260   LANGUAGE: English   RECORD TYPE: Fulltext
WORD COUNT: 10669   LINE COUNT: 00842

...   real time and then performed on the high-resolution data after user
confirmation.
      CD-Q. **Photo** CD and Pro **Photo** CD **images** can be viewed and
separated with CD-Q ($129), which **converts** YCC data to **gray** - **scale** ,
CMYK or **RGB** data. The user works with a preview **image** so that the
high-resolution **images** can be cropped, mirrored, rotated or
color-corrected as they are imported from the disc...

 17/3,K/24   (Item 3 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

01669270   SUPPLIER NUMBER: 15062380   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Victor image processing libraries gain JPEG support. (Joint Photographic
   Experts Group, Catenary Systems' Victor Library for DOS or Microsoft
   Windows) (New Products) (Brief Article) (Product Announcement)
Windows-DOS Developer's Journal, v5, n2, p80(1)
Feb, 1994
DOCUMENT TYPE: Product Announcement   ISSN: 1059-2407   LANGUAGE:
   ENGLISH   RECORD TYPE: FULLTEXT
WORD COUNT: 252   LINE COUNT: 00020

...   Victor for Windows. It now includes the ability to load and save
BMP and JPEG **image** files, in addition to TIFF, PCX, GIF, and TGA file
formats. New functions allow **conversion** between bilevel, **grayscale** ,
palette color, and **RGB** color **images** . You can use color reduction to
convert 24-bit RGB to 8-bit color **images** of 2 to 256 colors. Victor
Library for DOS supports EGA, VGA, Super VGA, and...

 17/3,K/25   (Item 4 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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01620110   SUPPLIER NUMBER: 14417704   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Advanced Windows Programming. (book reviews)
Casaro, Massimo
Windows-DOS Developer's Journal, v4, n10, p21(4)
Oct, 1993
DOCUMENT TYPE: review   ISSN: 1059-2407   LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT
WORD COUNT: 1905   LINE COUNT: 00150

...   the routines to Windows, the problems encountered, and the
solutions adopted.
     He then adds some **image** -processing capabilities to the program,
including **conversion** from **RGB** to **gray - scale** , **adjusting** colors
(using various color representations such as RGB, HSV, and HLS), and
playing with the Windows color palette. Since **image** -processing functions
take a lot of execution time, the author gives, in passing, his solution...

 17/3,K/26   (Item 5 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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01494218   SUPPLIER NUMBER: 11701276   (USE FORMAT 7 OR 9 FOR FULL TEXT)
**DoDOT is the Rosetta Stone of graphics conversion. (Halcyon Software Inc.'s
  $149 DoDOT 3.0 data conversion software) (Software Review) (Evaluation)**
Glinert, Susan
Computer Shopper, v12, n1, p628(2)
Jan, 1992
DOCUMENT TYPE: Evaluation   ISSN: 0886-0556   LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 1104   LINE COUNT: 00083

...   window contains red, blue, and green color-adjustment slider bars,
a palette for the current **image** , and a 17x17-cell matrix representing one
side of a color cube. The color scroll...

...and then select the new color from the current palette, the color cube,
or the **RGB** slider bars.
     Adjusting   gray - scaled pictures is a little more difficult, as
there is no provision for gray scales in...

 17/3,K/27   (Item 1 from file: 553)
DIALOG(R)File 553:Wilson Bus. Abs. FullText
(c) 2004 The HW Wilson Co. All rts. reserv.

03836220   H.W.   WILSON   RECORD   NUMBER: BWBA98086220   (USE FORMAT 7 FOR
FULLTEXT)
**Tapping solutions for color management: industry experts predict a swift,
  ubiquitous adoption of ICC-standard integration.**
AUGMENTED TITLE: cover story
Sharples, Hadley
Graphic Arts Monthly (Graph Arts Mon) v. 70 no9 (Sept. '98) p. 42-3+
LANGUAGE: English
WORD COUNT: 3169

   (USE FORMAT 7 FOR FULLTEXT)

TEXT:
...   applies input and output device profiles, applies global and

selective color corrections, and color-separates **images** . The software
also processes black-and-white **images** , **converts** **RGB** to **grayscale** ,
detects **image** characteristics, balances tone, and sets high-light and
shadow.
     Pantone has announced Pantone ColorReady, a...

 17/3,K/28   (Item 1 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

04668774   Supplier Number: 61532029   (USE FORMAT 7 FOR FULLTEXT)
The color management dilemma, Part II.
farace, joe
The Press, v21, n3, p49
March, 1999
Language: English   Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 1379

...   easier to analyze by using a monochrome image for testing.
     Step 2: Next, use the **image** editing program's Mode menu to then
convert the **grayscale**   **image** into **RGB** . I know this sounds backward,
but in order to apply color corrections you need to start with a "color"
image .
     Step 3: Make a print of that image using all controls set at their
default...

 17/3,K/29   (Item 2 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

03675114   Supplier Number: 47920179   (USE FORMAT 7 FOR FULLTEXT)
HITACHI IMAGE AND INFORMATION SYSTEMS LAUNCH NEW LINE OF IMAGING PRODUCTS
Computergram International, n3228, pN/A
August 19, 1997
Language: English   Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 57

   (USE FORMAT 7 FOR FULLTEXT)
TEXT:
The **Image** and Information Systems division of Hitachi Software
Engineering America Ltd has announced a new line of **imaging** products for
Autodesk Inc's AutoCAD release 14 design software. The new additions will
include a range of options designed for editing and **converting**
monochrome, **grayscale** and **colour** raster data inside AutoCAD.

 17/3,K/30   (Item 1 from file: 647)
DIALOG(R)File 647:CMP Computer Fulltext
(c) 2004 CMP Media, LLC. All rts. reserv.

01166332   CMP ACCESSION NUMBER: WIN19980701S0052
Produce Cutting-Edge, Laser-Sharp Pages (Hardware)
Joel T. Patz
WINDOWS MAGAZINE, 1998, n 907, PG107
PUBLICATION DATE: 980701
JOURNAL CODE: WIN   LANGUAGE: English

...   dark and well formed, with little quality difference between the
600x600dpi and 1200x600dpi settings.

 Unfortunately, **photos** looked grainy, with added streaking and
other unacceptable "noise." The Okipage NT driver offers more
sophisticated halftone adjustments than the Windows 95 driver, including
brightness , contrast and **RGB** values to **adjust** the **gray   scale** ; in
Win95 you can select optimization for **photographic** or line art **images** .
Even after I ·tinkered with the halftone functions in NT, the results were
no better...

 17/3,K/31   (Item 2 from file: 647)

**Perfect Pictures - Image editing apps can help you turn   your digital
    images into perfect pictures.**
Lynn Ginsburg and John Woram

...   without losing image quality or detail.
     Once everything worked together the way I wanted, I **converted** the
image from **gray   scale** to **RGB** (**red** , **green** , **blue** -video colors),
keeping the **image**   in layers so I could begin the colorizing process.
Using the Lasso tool set at a feather radius to match the **image** 's
softness, I created channels for areas such as faces, the back wall, the
floor...

...used Selective Color to control color in the highlights, middle tones
and shadows, bringing the   **image** one step closer to believability.
     Finally, I saved a flattened (no layers) composite, which I...
?

21/3,K/1   (Item 1 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

04565087   Supplier Number: 54548270   (USE FORMAT 7 FOR FULLTEXT)
**S.A.X.: s.a.x. announce new solution for electronic forms printing in the
  SAP environment.**
M2 Presswire, pNA
May 4, 1999
Language: English   Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 488

...   Support * Corporate-Design Font Support * Electronic Form Support *
Company Logo support * Paperhandling * Automatic Copies with **Watermarks** *
Drawing **Graphics** using PCL Commands * **Colour** Emulation * Full support
of JetCAPS BarSIMM to facilitate Barcode Printing * Support for MicrSIMM
product for...

 21/3,K/2   (Item 2 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

03844424   Supplier Number: 48357399   (USE FORMAT 7 FOR FULLTEXT)
TSSI: TSSI gains Investor in People status
M2 Presswire, pN/A
March 16, 1998
Language: English   Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 321

...   business. I am delighted our efforts have been recognised in this
way."
     Notes for editors: **Colour** **photograph** available on request.
     Watermark Magnetics is the leading secure magnetic stripe technology
which embeds a unique pattern in the...
?

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DIGIMARC IMAGEBRIDGE WATERMARKING GUIDE

Overview   Introduction   Guidelines   Survival   Case Studies

This section provides specific instructions and tips for integrating digital watermarking into your image processing workflow and creating the most durable digital watermarks possible.

Types of images can be digitally watermarked

Generally, any image that can be opened by the application that is using Digimarc technology can be watermarked. This section provides additional information on specific aspects of images relating to watermarking.

Bitmap images vs. vector images

Digital watermarking works most predictably with bitmap images, which can be either color or grayscale. Vector or line-art images can also be watermarked as long as they are first converted to a raster or bitmapped format.

File formats

A Digimarc watermark can reside in any file format supported by the Digimarc-aware host application. For example, TIFF, PICT, JPEG, GIF, PNG, PSD and BMP images can all contain a watermark. Because a watermark is carried by the pixels that make up an image, it survives even when the image is converted from one file format to another.

Note: Not all of Digimarc's products support all of these file formats. Refer to the User's Guide for your product for specific information.

Color space

The digital watermark is placed in the luminance channel of an image, so it is color space independent. A digital watermark can be placed in RGB, CMYK, LAB or grayscale images, and will survive when an image is converted from one color space to another.

Note: The RGB, CMYK, LAB and grayscale color spaces are not supported by all image-editing applications, so refer to the User's Guide for your application to see what color spaces it supports.

In some image-editing applications, no filters are available when working with indexed-color images (such as the GIF format); this will prevent you from using the plug-ins filter to embed a watermark in such an image. The solution is simple, however: just convert the image to RGB, apply the digital watermark, and then convert back to indexed color.

Image variations/randomness

Because of the way that Digimarc digital watermarks are embedded, an

image being watermarked must not be composed mostly or entirely of a single flat color if the watermark is to be imperceptible. Rather, the image must contain some degree of variation or randomness.

Since the watermark is intended to be information that the computer can see but the viewer does not, Digimarc uses a patented technique called perceptual adaptation when embedding digital watermarks. This is simply a technical way of saying that when embedding a digital watermark, the software identifies areas of the image that are highly detailed or very flat, and adjusts the intensity of the digital watermark accordingly. In flat areas the digital watermark intensity is decreased, while in detailed regions the intensity is increased. If an image is composed mostly of flat areas, it may be difficult to conceal the digital watermark.

Size of image that can be digitally watermarked
To embed a digital watermark and read it reliably later, the Digimarc technology requires a minimum number of pixels with which to work. If you don't believe that your image will be modified or compressed prior to its actual use, its size can be as small as 100 x 100 pixels. However, if you expect that your image might be cropped, rotated, compressed or otherwise modified after you watermark it, Digimarc recommends a minimum size of 256 x 256 pixels. There is no upper limit on image size for digital watermarking.

Note: You may find that some smaller images actually watermark successfully, and even that some larger images do not. Such variance in successful digital watermarking is a factor of the variation/randomness of the image (as discussed in the previous section), the durability setting used when embedding the watermark (see "Watermark durability vs. visibility" later in this Guide) and the parameters used in applying compression, if any (see Image compression in Watermark Survival section later in this Guide).

Workflow overview: when to digitally watermark images
As you prepare an image for its final use, you may take it through a number of different transformations. You may save the image in multiple resolutions, and you may perform a number of the edits discussed in the "Digital Watermark Survival" section of this Guide, such as color correction, cropping, rotating, scaling, etc. Digital watermarking should be one of the very last processes you apply to your image, except for compression. The recommended workflow sequence for digital watermarking, then, is as follows:

1. Make all necessary modifications to your image until it has the desired final appearance.
2. Embed the watermark.
3. If the final image should be compressed, compress by converting to JPEG or GIF format.
4. If the image is intended for printed output, perform the color separation now.
5. Read the digital watermark and use the signal strength meter to verify that the image contains a digital watermark of sufficient strength for your purposes.
6. Publish the image.

Setting digital watermark attributes

When you're ready to embed a digital watermark, you will need to set a number of parameters for the information the watermark will contain. The following list summarizes these attributes.

- *Digimarc ID.* A unique number that identifies you when you register with Digimarc as an image creator. This unique ID is linked to the Creator's contact profile.
- *PIN.* A Personal Identification Number provided to you by Digimarc for use in validating your Digimarc ID when you submit it.
- *Copyright Year.* A single year or two years separated by a comma; must be between 1922 and the current year, or
- *Image or Transaction ID.* A unique number that you assign to identify the image or transaction (range is 1-16,777,215).
- *Restricted Use.* When selected, indicates that the image is copyrighted and subject to restricted use.
- *Do Not Copy.* When selected, indicates that the image's creator and/or distributor has specified that the image should not be copied without permission.
- *Adult Content.* When selected, indicates that the image contains Adult Content.

Setting target output
Digimarc adjusts an embedded digital watermark slightly depending on whether the image will be used electronically or in printed form. You should select the intended target output for your image--monitor, print, or web.

Digital Watermark durability vs. visibility
Digimarc's goal is to embed digital watermarks that are both imperceptible to the human eye and durable. This can be a delicate balancing act, since watermark durability and watermark visibility are directly related. An increase in watermark intensity, or energy, increases the durability-but it also increases the visibility of the watermark. When a digital watermark becomes visible, it can appear as a slight texture or graininess in the image.

Using the durability/visibility setting
The default watermark intensity setting found in Digimarc digital watermarking products has been chosen to strike a balance between digital watermark robustness and visibility in the majority of images. However, this setting is by no means "one size fits all." Digimarc provides controls so that you can increase or decrease the watermark intensity level yourself to achieve the desired balance between watermark robustness and visibility in your digital watermarking projects. The setting you select will depend on the intended use of the image and on the goals you've set for your digital watermarks. For example, it may be quite acceptable to use a higher watermark intensity setting with JPEG images posted on a Web site. The higher durability helps to assure the persistence of the watermark, and the increased visibility will often not be noticeable with medium-resolution JPEG images.

Digimarc recommends that you try various digital watermark intensity settings as part of your testing process to see which setting works best for the majority of your images. The goal is to find the balance between visibility and durability that best serves your image and provides the persistent identity that will protect it. Use the signal strength meter to

get feedback on the watermark strength.

Other factors affecting watermark durability
Along with the intensity setting that you choose when embedding a watermark, the durability of a digital watermark is also affected by the following factors:

- Image variations/randomness-As discussed earlier in the "Image variations/randomness" section, the successful embedding of a watermark is dependent on the variation and randomness present in the pixels making up the image. For example, if you are working with an image that contains more flat color regions than detailed areas, you may want to choose a higher digital watermark intensity so that the watermark will overcome the limitations of the specific image. This may result in a more visible digital watermark, but in some situations that is an acceptable trade-off, as mentioned above.
- Image size-See the earlier section, "What size of image can be watermarked?"
- Compression-Saving the watermarked image in a compressed format may affect the durability of the digital watermark.

See the Digital Watermark Survival section.

Using the signal strength meter
A significant aid in determining the durability of an embedded digital watermark is the signal strength meter that is available in the Digimarc plug-ins. After you've embedded a digital watermark, you can immediately check its intensity visually with the signal strength meter and decide whether or not the digital watermark has a sufficient durability to survive your intended use of the image (you can do this automatically by selecting the "Verify" option when embedding a watermark). The signal strength meter is also available when you are reading a digital watermark you've previously embedded. When you are experimenting with different ways of preparing your images for digital watermarking and of putting them to use once they've been watermarked, we encourage you to use the signal strength meter as a "quick-read" gauge of how your various settings are working.

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TECHNICAL INFORMATION BULLETIN

Creating and Importing Watermark Images for
Kodak Photo CD Imaging Workstations 2220/4220/4440

Introduction

This document describes the steps necessary to create watermark images (Watermarks) for use on *Kodak* Photo CD Imaging Workstations 2220/2420/4220 (PIWs). For other details, consult the user's manual for your PIW.

Specifications for a Watermark

File Type	Resolution	Image Type
TIFF to IMAGE PAC	768 lines x 512 pixels or 640 lines x 480 pixels	Monochrome (grayscale), RGB color, or PhotoYCC color
IMAGE PAC	Base	Monochrome (grayscale), RGB color, or PhotoYCC color

Creating a Watermark

1. In an imaging program, create or scan any image you want to use for the Watermark. Keep in mind that you need only a Base-resolution image.

    The original image can be either color or monochrome. However, because the Watermark is used only in the luminance layer, you will see it only in monochrome, not in color.

2. Save the file in TIFF PC format. This format is usually an option in programs that run on a MACINTOSH computer, such as ADOBE PHOTOSHOP Software. Any program that runs on a PC should save the file properly.

    Note: *Kodak* Photo CD Imaging Workstations cannot read MACINTOSH files without additional software.

3. Put the saved file on either a PC-formatted floppy diskette or a magnetic disk that is networked to a

    PIW. (At the 768 x 512 resolution, a color image is only 1.17 MB; a grayscale image is 393 K.)

Importing a Watermark to the PIW

The method you will use to import the Watermark to the PIW depends on the source of the Watermark.

Option 1: Watermarks that have been created on a PC or MACINTOSH computer must be imported to the PIW using the TIFF import option and then exported to the PIW's hard drive for subsequent use. Watermarks can originate on a magnetic disk or writable CD.

Option 2: Watermarks that originate on film must be scanned into the system and then exported to the PIW's hard drive. (Scan Base resolution only to save disk space.)

Option 3: Watermarks that are on Photo CD should be copied from the Photo CD and exported to the PIW's hard drive.

Registering a Watermark on the PIW

See pages 3-14 and 3-15 of the PIW user's manual for information on how to register a Watermark. Simply stated, you register a Watermark by importing the location of the Watermark into the default menu so that it will appear on the PIW.

The PIW can recognize only ten Watermarks at a time, but you can have as many on the system as you want to maintain.

More Information

See the following sections in your PIW user's manual for more information: "Watermarking images," page 1-25 and "Setting Image Pac property defaults," pages 3-14 and 3-15.